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Acharya Pathasala College of Arts & Science

Narasimharaja Colony, Bangalore –560 019.

Website: apsartsandscience.org Email: apscollegeofartsscience@gmail.com

Dr B.Jayashree, M.Sc.,(Phy), M.Phil., Ph.D.,
PRINCIPAL

Report of Class- Representative Selection

The Cultural Committee, APS College of Arts and Science conducted class representative elections for First, Second, and Third-year B.A., B.Sc., and B.C.A. students on 29th November 2022. The process involved nominations, a candidate forum, and a voting system to ensure fairness. Students participated actively, showcasing enthusiasm for leadership roles. Transparency was maintained in announcing the results. Dr. B. Jayashree, Principal, informed all the Class Representatives to be actively participate in the college cultural activities and also mentioned to present the grievance of the students to the mentors at the end of the week. Class representatives presented their views about the future plans and the activities to be conducted in the campus.

The Cultural Committee collected valuable feedback during the process.



Beetha Jayashree
Principal 29/11/22
PRINCIPAL
APS College of Arts & Science
N.R. Colony, Bangalore-560 019



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Dr. B. Jayashree, MSc., M.Phil., Ph.D.,

I/c PRINCIPAL

APSC A/S No./ 519A /2022-2023

Date 26.11.2022

Circular

All the mentors are informed to select class representatives preferable unanimously on 29.11.2022 at 12 noon in their respective class rooms. 75% of attendance is compulsory & should be duly signed by concerned teachers for selecting class representatives.

B. Jayashree 26/11/22
Principal

PRINCIPAL

**APS College of Arts & Science
N.R. Colony, Bangalore-560 019,**

Acharya Pathasala College of Arts & Science

Narasimharaja Colony, Bangalore -560 019.

List of Class Representatives

Sl. No.	Name	Class / Combination	Phone Number
01	Anirudh & Rashika	I BA	9972238695 / 7019654552
02	Manoj & Sumathi	II BA	9353399252 / 97319981670
03	Vinutha & Ranganath	III BA(HEK)	9731536398 / 7760863447
04	Tejaswini & Nandan	III BA (HEP)	8884165030 / 91488498483
05	Abhishek / Jyothi Varma	II BSc(PCM)	9743133272 / 8095938696
06	Chandu & Rekha	III BSc (PCM)	9110448808 / 6366111750
07	Lokesh & Sharmila	III BSc (CBZ)	9901972771 / 9731981670
08	Prakruthi & Prajwal	I BCA	8951452497 / 9148157444
09	Balashakthi & Harshitha	II BCA	8050004079 / 8792102722
10	Meghana & Sumanth	III BCA	6361969828 / 8884656650

Principal

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PRINCIPAL

10 Days Next Gen Employability Program Report

The placement cell of APS College of Arts and Science, N.R. Colony, Bangalore in association with Edu.Net foundation conducted a 70 Hrs. Next Gen Employability program for 2nd and 3rd year B.Sc., and BCA students from 17th April 2023 to 26th April 2023. It is a training program scheduled for 70hrs and the outlined content for non-engineering students was divided into 5 modules which consisted topics from Basic and advance Excel, obtaining data from different sources, transforming, designing and developing a data model and also to create reports and dashboards along with the skills to manage files, workspaces and datasets.

Trained faculties from Edu.Net were conducting the classes for the students. The orientation program was conducted on 14th April 2023 in order to mark the beginning of the session. It was conducted online through zoom platform. Narendra Eluri from Edu.Net and Sunil Kumar K from APS college of Arts and Science were the hosts for the orientation program. Around 44 students attended the session.

The training schedule went on from 17th April to 26th April in two sessions. Students attended both the sessions regularly and enthusiastically.

The valedictory session of the program was held on 26th April 2023 at 11 A.M in presence of Sri. A. R. Acharya, General Secretary, APSET, DR. B. Jayashree, Principal APSAS, Ms. Alisha, Edu.Net Next Gen Employability trainer. Sri. Sunil Kumar K, placement officer of APS College of Arts and Science welcomed the gathering. The students who participated in the program gave positive feedbacks about the training session and thanked the organizers for conducting this training session in the college for free of cost.

Dr. B. Jayashree, Principal addressed the students and said that along with academics, Hands-on skills are very important for students to be successful in all fields. She said that this program has highly benefitted the students in order to be competent in their future prospects. She thanked the management for their support and also congratulated the placement cell members for their initiative to conduct this program in the college smoothly.

Sri. A.R. Acharya, General Secretary addressed the gathering and said that our college has always conducted variety of programs to make the students competitive and successful in many ways. He motivated the students by saying that the students must make the best utilization of

the resources available in the college and also conveyed that these skills are required for overall development of the students.

The vote of thanks was proposed by Sri. Satyappa Nayaka M.J, Placement cell member.

Outcome:

The program was conducted to promote the all-round development of the student's potentials by providing need-based career-oriented quality education with an emphasis on social concern.

Around 40 students attended the program and were exclusively benefitted with the skills and talent required for their successful journey as students.



Handwritten signature
26/4/23
PRINCIPAL
APS College of Arts & Science
N.R. Colony, Bangalore-560 019



Deepa 28/4/23
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APS College of Arts & Science
N.R. Colony, Bangalore-560 019.



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Dr. B. Jayashree, M.Sc., M.Phil., Ph.D.,

I/c PRINCIPAL

APSAS / 11 / 2022-2023

Date: 11.04.2023

Next Gen Employability Program for 2nd and 3rd year B.C.A & B.Sc., Students
Organised by Placement Cell in Association with Edu. Net.

Training Schedule for 70 Hrs. Programs

Sl. No.	Date	Time	Hours
01.	17.04.2023	9:00 am to 5:00 pm	07 Hrs.
02.	18.04.2023	9:00 am to 5:00 pm	07 Hrs.
03.	19.04.2023	9:00 am to 5:00 pm	07 Hrs.
04.	20.04.2023	9:00 am to 5:00 pm	07 Hrs.
05.	21.04.2023	9:00 am to 5:00 pm	07 Hrs.
06.	22.04.2023	9:00 am to 5:00 pm	07 Hrs.
07.	23.04.2023	9:00 am to 5:00 pm	07 Hrs.
08.	24.04.2023	9:00 am to 5:00 pm	07 Hrs.
09.	25.04.2023	9:00 am to 5:00 pm	07 Hrs.
10.	26.04.2023	9:00 am to 5:00 pm	07 Hrs.

Note:

- ❖ Morning Session : 9:00 am to 12:00 pm
- ❖ Afternoon Session: 1:00 pm to 5:00 pm

Principal

PRINCIPAL

APS College of Arts & Science

N.R. Colony, Bangalore-560 019



APS COLLEGE OF ARTS AND SCIENCE

N. R. COLONY, BENGALURU-560019

You're Cordially Invited to Valedictory Session of
10Days (70 Hrs.) Next Gen Employability Program
Organized by

Placement Cell in Association with Edu Net Foundation

On 26th April 2023 at 11:00 am

Venue: Room No. 08

In presence of

Sri. A. R. Acharya,

General Secretary, APSET

Dr. B. Jayashree,

Principal, APS College of Arts and Science

Ms. Aalisha,

Edu. Net, Next Gen Employability Trainer

Sri. Sunil Kumar. K,

Placement officer, APS College of Arts and Science

Staff and Students

Dr. B. Jayashree
26/4/23
PRINCIPAL

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edunet
Foundation

Memorandum of Understanding

This Memorandum of Understanding is entered on 1st March 2023 by and between **Edunet Foundation** having its office at A-11- 1105, Arcadia South City 2, Gurgaon 122018, India (hereinafter referred to as "Edunet"); and APS College of Arts and Science having its address APS College of Arts and Science, N. R. Colony, Bengaluru 560019, Karnataka, India. (hereinafter referred to as "institution")

Whereas, Edunet is a non-profit organization with multiple programs, sponsored by government and corporate entities, that are offered free to learners across the education spectrum, including but not limited to Next Gen Employability Program (<http://ey.edunetworld.com>).

Whereas, Institution is a premier institution with the following details:

Established (year):	1956
Vision:	To Promote the all-round development of the student's potential by providing need- based career- oriented, quality education with an emphasis on social concern

And whereas, the Parties seek to collaborate with each other to mutually complement their synergies and to jointly work on building capacity of learners through one or more of the programs managed by Edunet.

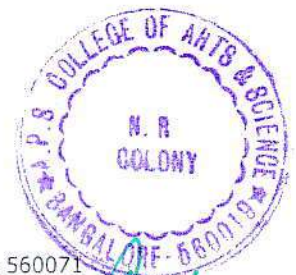
Now therefore, this **Memorandum of Understanding** (hereinafter called "MOU") witnesses the following.

- Term and termination:** This MOU is valid for an initial term of 1 year from the Effective Date. It can be extended by further periods, as agreed to by the Parties from time to time. Either Party may terminate this MOU by giving the other minimum 30 days' notice. The MOU will be deemed terminated at the end of the notice period or after completing all ongoing activities so that the beneficiaries (learners and teachers) are not negatively impacted, whichever is later.
- Non-binding nature of this MOU:** The MOU is not binding on either Party and each is working with the other out of sheer good-will and for the benefit of the learners.
- Single Point of Contact (SPOC) for program co-ordination:** Both the Parties shall appoint a suitable person who will serve as a single of contact on all matters related to program rollout. Individual learners and teachers may be in touch with corresponding trainers, mentors, advisors and peers during program roll-out but all matters related to the execution of this MOU shall reside with the SPOC.

Bangalore office: Fairway Business Park, 7th Floor, EGL, Domlur, Bangalore 560071

Gurgaon/NCR office: A-11-1105, Arcadia, South City 2, Gurgaon 122018

info@edunetfoundation.org



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4. **Program Calendar:** The SPOCs from both Parties will work with their respective internal stakeholders to develop a calendar for the program(s) rollout at the start of every quarter. This calendar will then be synchronized and published for use by everyone.
5. **Responsibilities of Edunet and/or its program sponsors/partners:**
 - a. **Orientation sessions:** Edunet will conduct orientation sessions for learners and educators, at a mutually agreed schedule, to onboard them onto the program(s).
 - b. **Program materials:** Edunet will share all program materials with the institution and/or learners as required. All sharing will be online and/or through electronic media.
 - c. **Online instructor led sessions:** These sessions may take the form of coursework sessions, webinars or mentoring workshops or technology bootcamps or innovation camps or career readiness workshops that will seek to assist learners in their career goals. These programs will be organized regular as per a regular calendar, published online and will be conducted by Edunet team members or program sponsors or external stakeholders as appropriate.
 - d. **Interaction with Industry experts:** Edunet will bring industry experts to the Institute to drive engagements with students through seminars/webinars or project mentorship.
 - e. **Online platform availability:** Online platforms for each of the programs of interest to the Institution will be made available to it. Links for these platforms will be made available to the Institution in a timely manner.
 - f. **Assessments:** Edunet will conduct assessments, as required, for its programs prior to certification by Edunet and/or its industry partners and/or participating government agencies.
 - g. **For programs with career paths:** Edunet will provide linkages with local and regional industry, government and the local start-up ecosystem (incubators etc) that will help learners with gainful employment and/or entrepreneurial opportunities. Interactions will be encouraged in terms of classrooms sessions, workshops, internship opportunities, career opportunities and entrepreneurship opportunities.
 - h. **Updates:** Edunet will keep Institution management updated with the progress of the program(s)
6. **Responsibilities of Institution:**
 - a. **Learner identification:** Institute will identify learners, volunteers and instructors who may participate in one or more programs offered by Edunet.
 - b. **Support with orientation sessions:** Institute will support Edunet conduct orientation sessions for all stakeholders.
 - c. **Support with attendance:** Institute will ensure that program participants enthusiastically participate in chosen programs, with minimum attendance as agreed between the Parties.
 - d. **Support with assessments:** Institute will ensure that assessments carried onsite are proctored and professionally managed.
 - e. **No fees:** Institute will not charge any extra fees from learners for participation in Edunet programs. Edunet will not charge any fees from the students/university for the program.

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Gurgaon/NCR office: A-11-1105, Arcadia, South City 2, Gurgaon 122018

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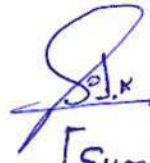
Website: apcollegeofartsandscience.com Email: apcollegeofartsscience@gmail.com

edunet
Foundation

IN WITNESS WHEREOF, the parties hereto have executed this MOU on the Effective Date.

For Institution		For Edunet Foundation	
Name:	DR. B. JAYASHREE	Name:	
Designation:	PRINCIPAL	Designation:	
Institutional Seal:			

* Witness :-



[Sunil Kumar. K.]





Asst. Professor and Placement officer
APS College of Arts & Science
N.R. Colony, Bengaluru - 560019

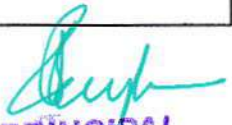
APS College of Arts and Science

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Next Gen Employability Program for 2nd and 3rd year B.C.A & B.Sc., Students

Organised by Placement Cell in Association with Edu. Net.

Sl. No.	Name of the Student	Course	Year	Sem.	Contact Number	Email Id	Signature
1	MEGHANA	BCA	III	VI	973944 -8873	meghana2002 abhl@gmail.com	
2	PRATHIBA.R.	BCA	III	VI	70194 67054	prathiba6705 -4@gmail.com	
3	JYOTHIKA.G	BCA	III	VI	815200 6943	jiyothi636135 @gmail.com	
4	TEJASWINI.M	BCA	III	VI	89046 90431	teju3103@ gmail.com	
5	VAISHNAVI.K.V	BCA	III	VI	935318 7228	vais hnavilava 27@gmail.com	
6	SHARMILA.J	BSC	III	VI	97319 81670	Sharmila praja pato7@gmail.com	
7	M. MUSKAN	BSC	III	VI	74836 03502	muskanstahin 7483@gmail.com	
8	Priya K.D	BCA	III	VI	886756 5203	Priyad2003 @gmail.com	
9	Shree Lakshmi	BCA	III	VI	82777 40409	Shree Lakshmi bhigamudare @gmail.com	


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10	Aruntha. M	BCA	<u>III</u>	<u>VI</u>	973980 7051	aruntham 657@gmail. com	<u>Aruntha</u>
11	Harshitha. D	BCA	<u>III</u>	<u>VI</u>	81970 44396	harshu1172 @gmail.com	<u>Harshitha. D</u>
12	Hemalatha. P	BCA	<u>III</u>	<u>VI</u>	82961 93253	hemalatha357 @gmail.com	<u>Hemalatha. P</u>
13	Neha. G. Kulkarni	BCA	<u>VII</u>	<u>VI</u>	8297 6302 97	nehagkulkarni 4203@gmail. com	<u>N. G. Kulk</u>
14	Gowthami. N	BCA	<u>III</u>	<u>VI</u>	933766 3301	nagavajraguS.in -dhu@gmail.co m	<u>Gowthami. N</u>
15	Vasun. R	BCA	<u>III</u>	<u>VI</u>	9980318 147	vraj1396 @gmail.com	<u>Vasun. R</u>
16	Jagadeesh	Bsc	<u>III</u>	<u>VI</u>	9148837 894	jjagadeesh1009 @gmail.com	<u>Jagadeesh</u>
17	Chandan S	BCA	<u>IV</u>	<u>VI</u>	96204 40595	chandansbtrot @gmail.com	<u>Chandan S</u>
18	Sumanth. DN	BCA	<u>III</u>	<u>VI</u>	88846 56650	SumanSumanth 744@gmail.com	<u>Sumanth. D. N</u>
19	Shashanka. R	BCA	<u>III</u>	<u>VI</u>	97404 75983	shashanka 47261@gmail.com	<u>Shashanka. R</u>
20	Mohammed Ayoon YM	BCA	<u>III</u>	<u>VI</u>	636196 4978	yammohamme dayan672@ gmail.com	<u>Mohammed Ayoon YM</u>
21	TUNAR. A	BCA	<u>III</u>	<u>VI</u>	960640 3288	Tunavarganda 4052@gmail. com	<u>TUNAR. A</u>
22	PRAJWAL CV	BCA	<u>III</u>	<u>VI</u>	95250 65499	Prajwalee 55083@ gmail.com	<u>PRAJWAL CV</u>

23	ABDOL KALAM	BCA	III	VI	974255 -6853	jack9742556853 @gmail.com	<u>Abdul</u>
24	Chandu M.K	Bsc	III	VI	88843 22756	mkchandu @gmail.com	<u>Chandu</u>
25	Ranjith.R	B.Sc	III	VI	93534 21079	ranjithrocky622 @gmail.com	<u>Ranjith</u>
26	Bhadrath K.S	B.Sc	III	VI	636469 8892	dollybharathoo @gmail.com	<u>Bhadrath</u>
27	Abhishek Gowda.K.B	B.Sc	II	IV	97431 33272	Abhishekgowda k62142004@ gmail.com	<u>Abhishek</u>
28	Vijay.G	B.Sc	II	IV	789851 7019	vijay.itel42@ gmail.com	<u>Vijay</u>
29	Punith Gowda .K.M	B.Sc	II	IV	8073 0377 87	Punithgowda 892@gmail	<u>Punith Gowda.K.M</u>
30	Ajith kumar	BCA	III	VI	7899 7507 31	ak499399 7@gmail.com	<u>Ajith</u>
31	Rajeev.HK	B.Sc	III	VI	748353614	Rajeev.HK hkrajeev.000@gmail	<u>Rajeev.HK</u>
32	Lokesh Gowda	B.Sc	III	VI	911044- 8808	lokesh.gowdap 003@gmail.com	<u>Lokesh Gowda</u>
33	Kusuma.M	B.Sc	III	VI	789950 7959	saanuprky71 @gmail.com	<u>Kusuma.M</u>
34	Sandhya	B.Sc	III	VI	70226 80849	sandhyak andy706308 @gmail.com	<u>Sandhya</u>
35	Dhanusha.R	BSC	III	VI	748362 6962	ddhanushasaru @gmail.com	<u>Dhanusha</u>

36	KRUTHIKA M.R	B. Sc	III	VI	8296 388163	kruthika292sho@gmail.com	kruthika
37	JYOTHI VERMA	B.Sc.	II	III	809593 5696	vermajyothi00@gmail.com	Jyothi
38	Diana.K	B.Sc	II	IV	88612 28747	dianaka@gmail.com	Diana.K
39	Vasundra.p	B.sc	II	IV	81233 27284	vasundra.PV173@gmail.com	Vasundra.p
40	Aishwarya.R	B.sc	III	VI	96637 49563	aishwaryasaishu8792@gmail.com	Aishwarya.R
41	Dhanalakshmi D.B	B.sc	III	VI	7338255 690	dhanalakshmidb2002@gmail.com	Dhan
42	Geetha.S	B.sc	III	VI	96866 57917	geethashetty311@gmail.com	Geetha.S
43	Chaitra MR	Bsc	III	VI	81399 86627	Chaitramr292@gmail.com	Chaitra
44	Suchithra.S	B.Sc	III	VI	70227 30392	Suchithras350@gmail.com	Suchi
45	Sushmita.S	B.Sc	III	VI	895120 3032	SSushmitas366@gmail.com	Sushmita.S
46	Margula.S	B.Sc	III	VI	866021 8469	Margulas57981@gmail.com	Margula.S
47	ShashiRetho	BCA	IV	VI	808886 3642	ShashiShashiRetho96@gmail.com	ShashiRetho
48	Anitha.p	BCA	IV	VI	812326 8784	AnithaP0305@gmail.com	Anitha.p

49	Pooja.	BSC	III	VI	72040 70622	Poojahashitha 143@gmail.com	Pooja.
50	Sheela.s	BSC	III	VI	85469 02823	Sheelamanju 2819@gmail.com	Sheela S
51	Kavyashrum	BSC	III	VI	99164 01596	Kavyasi 2719@gmail.com	Kysh
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Next Gen Employability Program for 2nd and 3rd year B.C.A & B.Sc.,
Students

Organised by Placement Cell in Association with Edu. Net.

Feedback form Day 1 Session

Sl. No.	Name of the Student	Course/ Sem.	Is Day 1 Session was helpful (Yes/ No)	Feed BACK about Day 1 Session
1	MEGHANA. A	III Year BCA	Yes	Very helpful. learnt from the scratch
2	TEJASWINI.M	III Year BCA	Yes	Very Interesting
3	Jyothika. G	III Year BCA	Yes	very informative and learnt new things.
4	Vaishnavi K.V	III year BCA	Yes	Informative Session
5	Sushmitha.S	III Year BSc	Yes	usefull
6	Manjula.S.C	III Year BSc	Yes	Helpfull.
7	Shashi Rekha	III year BCA	Yes	Helpfull
8	Neha G.Kulkarni	III year BCA	Yes	Helpfull
9	Anitha.P	III Year BCA	Yes	Very helpful. learnt new skills

10	Amsutha. M	III Year BCA	Yes	Very Informative, Learnt many new thing.
11	Harshitha. D	III Year BCA	Yes	Useful.
12	Gonothami. N	3 rd year BCA	Yes	I gained many Information in this Section.
13	Priya k. D	3 rd year BCA	Yes	Very Usefull
14	M. Muskan	3 rd year BSc	Yes	Useful.
15	YOGESH. M	3 rd year BCA	Yes	Lernt New things very useful.
16	Mohammed Ayan	3 rd year BCA	Yes	Knowledgeable
17	Diana. K	2 nd year B. SC	Yes	interesting. & useful.
18	Vasundra. p	2 nd year B. SC	Yes	Very useful.
19	Sandhya. G	3 rd year BSc	Yes	Gaining Knowledge
20	KOUSALYA	3 rd year BSC	Yes	Helpfull Session
21	Harshitha. V	3 rd year BSC	Yes	Good Coaching and very useful

22	Sheela. S	III year BSC	Yes	Provide specific examples.
23	Aishwarya. R	III Year B.sc	Yes	It was helpful
24	Dhanalakshmi DB	III Year B.sc	Yes	Doing well
25	Geetha. S	III Year B.sc	Yes	You're making a huge impact
26	Jyothi Verma	II year BSC.	Yes	helpful.
27	Dhanusha R	III year BSC.	Yes	It was great
28	Krutika. MR	III year BSC.	Yes.	Awesome.
29	Pooja	III year BSC	Yes	Interesting, and good.
30	Kusuma M	III year BSC	Yes	useful
31	Suchithra. S	III Year BSC	Yes	useful
32	Prathiba R	III year BSC	Yes	It was very useful to me.
33	Kavyashree. m	III year BSC	Yes	Helpful.

34	Sumanth DW	III year BCA	Yes	Good
35	Shashankra	III year BCA	Yes	Good
36	Chandan S	III Year BCA	Yes	Good
37	Vasum R	III year BCA	Yes	Good
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Acharya Pathasala College of Arts and Science

N.R Colony, Bengaluru-560019

Report On “Fun Fair - Anantha” Celebrated On 30th July 2022

A unique event conducted by the cultural committee was FUN FAIR ANANTHA held on 30-07-2022. The purpose of this event was to familiarize students about entrepreneurial skills, marketing techniques and trading skills. As many as 25 stalls were opened by the students and the programme was inaugurated by the Principal Dr. B Jayashree Madam in her address informed the students about economics of business. More than 300 students and staff of our college, APS PU College, APS Commerce College participated and enjoy the fun. Games and stall organizers made profit and a generously contributed this for fees payment of poor and specially abled students of the college.



Principal

APS College of Arts & Science
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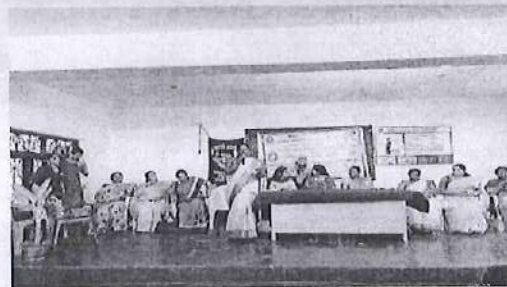
Acharya Pathasala College of Arts & Science
Narasimharaja Colony, Bangalore –560 019.

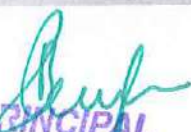
NSS Special Camp at Thirumurthy Gramabhirudhi Kendra, Road
Jakkasandra, Kanakapura Tq, Ramanagara Dist.

Day/Date	Programme Name	Duration	Resource Person
26-04-2023	Special Camp Inaugural	1 Hour	Sri. N. Gopikumar
27-04-2023	NSS & Youth Empowerment	1 Hour	Sri. Srinivasamurthy
28-04-2023	Women Empowerment	1 Hour	Dr. B. Pushpa
29-04-2023	Indian Economy	1 Hour	Dr. Lokesha. A
30-04-2023	Live Sustainabal for Solar Energy	1 Hour	Sri. M. Mahadev
01.05.2023	Health & Yoga		Sri. Prabhu Swamy
02.05.2023	Special Camp Valedictory	1 Hour	Sri. Ragesh. H.K

Special Camp was highly successful with 50 No. of Students and Staff Participating. It provided them an experience to mingle with villagers and be of help to them.

Annual NSS Camp was organized by NSS Unit APS College of Arts and Science from 26th April 2023 to 2nd May 2023, Thirumurthi Bhavan, Kanakapura.




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No. APSAS / 199 / 2022-2023

Dated: 13 -07-2022

CIRCULAR

All the Heads of the Department are hereby informed that Life Skill/add on courses will be conducted for the academic year 2021-22. Courses in Kannada, Physics, Mathematics, Chemistry, Psychology, Humanities and Computer Science are scheduled to be conducted from first week of August 2022 for 4th Semester B.A, B.Sc and B.C.A students. Each of the courses will be conducted for 30 hrs duration. HODs are required to submit the Syllabus and time table before 20th July 2022 as it has to be approved in GC meeting.


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Dr.B.Jayashree M.Sc., M.Phil., Ph.D.
I/C Principal

No. APSAS / 237A / 2022-2023

Dated: 29 -07-2022

CIRCULAR

Students of IV Semester BA, B.Sc and BCA are hereby informed that Value added/Certificate courses will be conducted for free of cost during August 2022 for 30 hours as per the notified time table. This will enhance your skills and increase your employability. Certificate will be issued after the successful completion of the course.

Interested IV Semester BA, B.Sc and BCA students are hereby informed to register your name with respective course coordinators.

1. Mrs. Sathyashree – Department of Computer Science
2. Dr. Narasimha Parvathikar - Department of Physics
3. Mrs. Sona Bai – Department of Chemistry
4. Mrs. Harshitha.S – Department of Psychology

Principal

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Dr.B.Jayashree M.Sc., M.Phil., Ph.D.
I/C Principal

Dated: 29 -07-2022

**Time Table for Add on/Certificate Course for the Academic year 2021-22 for
2nd year B.A, B.SC and BCA**

DEPARTMENT	DAY	TIME	STUDENTS
COMPUTER SCIENCE	Monday	2:30 – 4:30 pm	IV Sem BCA & Interested Students from B.Sc & BA
PHYSICS	Friday	3:30 – 5:30 pm	IV Sem PCM & BCA
CHEMISTRY	Saturday	1:30 – 3:30 pm	IV Sem PCM & CBZ
PSYCHOLOGY	Wednesday	3:30 – 5:30 pm	IV Sem BA & BSC

Beef 29/7/22
Principal

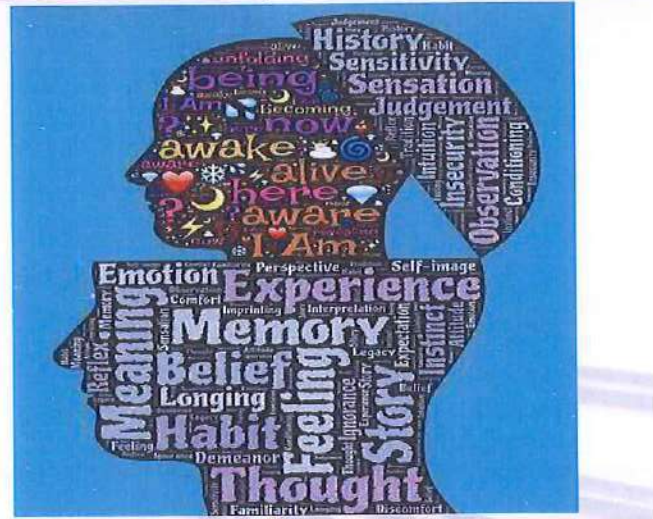
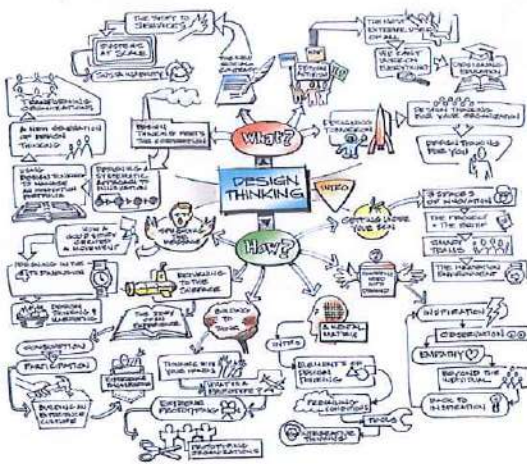
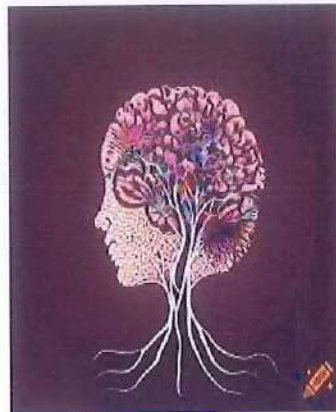
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ACHARYA PATHASALA COLLEGE OF ARTS AND SCIENCE
NARASIMHARAJA COLONY, BENGALURU-560019

Website: apcollegeofartsandscience.com Email: apcollegeofartsscience@gmail.com
Telephone: 080-26603192

AFFILIATED TO BENGALURU CITY UNIVERSITY NAAC ACCREDITED – B+ GRADE



DEPARTMENT OF PSYCHOLOGY

VALUE ADDED COURSE

ON

PSYCHOLOGY AND LIFE

Head of the Department of Psychology
APS College of Arts & Science
N. R. Colony, Bengaluru - 560 019

Principal
APS College of Arts & Science
N.R. Colony, Bangalore-560 019

DEPARTMENT OF PSYCHOLOGY

COURSE DETAILS

Department: Psychology

Name of the Course: Psychology and Life

Number of Hours: 30 Hours

Name of the Course Coordinator: Harshitha S

Contact Number: 8553752375

Email Id: harshithasanju12@gmail.Com

Commencement Date: 3rd of August, 2022.

Time: Wednesday 3.30 pm to 5.30 pm

Venue: Department of Psychology



Head of the Department of Psychology
APS College of Arts & Science
N R. Colony, Bengaluru - 560 019



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DEPARTMENT OF PSYCHOLOGY

SCHEME OF EVALUATION

Prerequisites: Students currently pursuing Bachelor's degree in Psychology or related subjects.

Objectives of the Course: The value added course "Psychology And Life" aims to equip students in Inter Personal and Intrapersonal Relationships.

Teaching/Learning Strategies: Presentations, Interactive Classroom Sessions, Group discussions.


Evaluation Method:

1. Students Enrolling are Required to attend all the theory classes.
2. Must have 75% attendance.

GRADING SYSTEM FOLLOWED:

GRADE	MARKS
O (OUTSTANDING)	80-100
A (EXCELLENT)	70-79
B (GOOD)	55-69
C (AVERAGE)	40-54


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DEPARTMENT OF PSYCHOLOGY

SYLLABUS

I. SELF AWARENESS:

- SELF ESTEEM
- MOTIVATION
- CREATIVITY
- VALUES & ETHICS
- SELF MANAGEMENT

II. COMMUNICATION & THINKING:

- COMMUNICATION
- THINKING & REASONING
- PROACTIVE THINKING
- POSITIVE THINKING
- ASSERTIVENESS

III. EMOTIONS:

- EMOTIONS
- EMOTIONAL INTELLIGENCE
- LOVE & HAPPINESS
- ANGER AND FEAR
- STRESS

IV. RELATING TO OTHERS:

- EMPATHY
- FRIENDSHIP
- LEADERSHIP
- INTERPERSONAL RELATIONSHIP

Life Skills




Deepa
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Deepa

LIST OF STUDENTS ENROLLED FOR VALUE ADDED COURSE

SL. NO.	NAME OF THE STUDENT	COURSE & COMBINATION	REGISTER NUMBER
1	SATHYA Y	IV SEM, BA/SEPsy	A2010019
2	VIKRAM C	IV SEM, BA/SEPsy	A2010023
3	NEERAJA R	IV SEM, BA/SEPsy	A2010012
4	PINKY KUMARI R	IV SEM, BA/SEPsy	A2010014
5	NEHA R	IV SEM, BA/SEPsy	A2010013
6	VINUTHA M	IV SEM, BA/SEPsy	A2010025
7	HEMALATHA K H	IV SEM, BA/SEPsy	A2010009
8	SHANDY THOMAS	IV SEM, BA/SEPsy	A2010020
9	SUNIL KUMAR R	IV SEM, BA/SEPsy	A2010022
10	PRAVEEN K R	IV SEM, BA/SEPsy	A2010015
11	DEEKSHITH RAJU R	IV SEM, BA/SEPsy	A2010007
12	NAMRATHA S	IV SEM, BA/SEPsy	A2010011
13	CHARAN K	IV SEM, BA/SEPsy	A2010005
14	ROHIT S	IV SEM, BA/SEPsy	A2010017
15	CHANDRA SHEKAR S	IV SEM, BA/SEPsy	A2010004



SIGNATURE OF COURSE CO-ORDINATOR



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Telephone: 080-26603192

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REPORT ON VALUE ADDED COURSE

Department of Psychology conducted a Value added Course on **PSYCHOLOGY AND LIFE** for students of Psychology who were in the II year B.A., IV semester. Brochure was given to students after which they registered for the course.

The objective of the course was to widen the knowledge and equip students in interpersonal and intrapersonal relationships. The syllabus of the Value added Course included concepts related to the cognitive aspects such as self-awareness, communication & thinking, emotions.

Dr. B. Jayashree, Principal, APSAS, inaugurated the course on 3rd of August 2022. A weekly class with duration of two hours was taken on every Wednesday, from 3.30 pm to 5.30 pm by the faculty Harshitha S. The teaching and learning strategies included the interactive classroom sessions and group discussions. The total number of hours was 30. Certificates were given to students who successfully completed the course with more than 75% attendance and attended the test at the end of the course. The grading system followed as below.

GRADES	MARKS
O (OUTSTANDING)	80-100
A (EXCELLENT)	70-79
B (GOOD)	55-69
C (AVERAGE)	40-54

About 15 students enrolled for the value added course.

The outcome of the course:

1. The students felt more grounded, confident and efficient and able to manage their emotions.
2. Improved communication and built positive relationship.

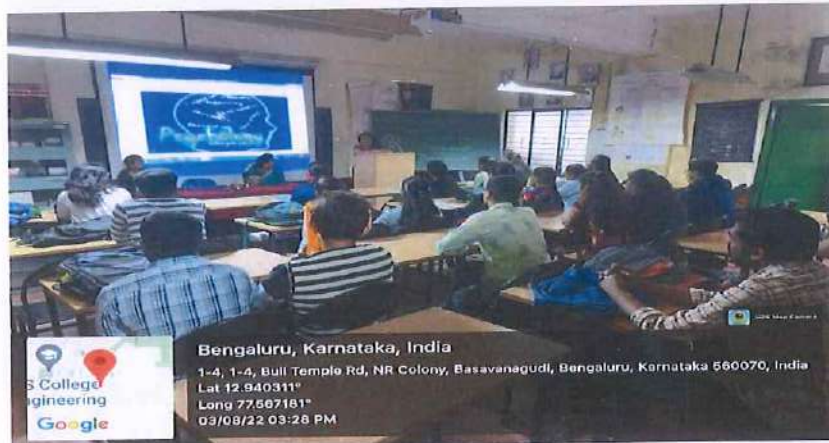
COURSE COORDINATOR SIGNATURE

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Bengaluru, Karnataka, India
 WHR8+5H9, Basavanagudi, Bengaluru, Karnataka 560004, India
 Lat 12.94059°
 Long 77.56642°
 03/08/22 03:25 PM



Bengaluru, Karnataka, India
 1-4, 1-4, Bull Temple Rd, NR Colony, Basavanagudi, Bengaluru, Karnataka 560070, India
 Lat 12.940311°
 Long 77.567181°
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Bengaluru, Karnataka, India
 1-4, 1-4, Bull Temple Rd, NR Colony, Basavanagudi, Bengaluru, Karnataka 560070, India
 Lat 12.940276°
 Long 77.567181°
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 COURSE COORDINATOR SIGNATURE


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REGISTRATION FORM FOR VALUE ADDED COURSE

2021-2022

COURSE NAME: *Psychology and life*
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Psychology and life</i>
APPLICATION NO:	<i>01</i>

NAME	<i>Sathya.y</i>
DATE OF BIRTH	<i>20/08/2002</i>
CLASS	<i>II year BA [SEPsy]</i>
REG. NO.	<i>A2010019</i>
FATHER'S NAME	<i>Lt. Vallappa I</i>
MOTHER'S NAME	<i>Lt. Meghala</i>
RESIDENTIAL ADDRESS	<i>#57 D'Souza Garden Jr Road Bangalore North - 560002</i>
MOBILE NO. & E-MAIL ID OF CANDIDATE	<i>7892679496 Sathyasathya45228@gmail.com</i>
PARENT'S CONTACT NO.	<i>7200009258</i>
NAME OF COLLEGE/INSTITUTION	<i>A.P.S college of Arts & science</i>
COORDINATOR(S) SIGNATURE	<i>[Signature]</i>
FACULTY INCHARGE SIGNATURE	<i>[Signature]</i>

Sathya.y
CANDIDATE'S SIGNATURE

[Signature]
PRINCIPAL
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REGISTRATION FORM FOR VALUE ADDED COURSE

2021-2022

COURSE NAME: *Psychology & life*
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Psychology and life</i>
APPLICATION NO:	<i>02</i>

NAME	<i>Vikram Kumar C</i>
DATE OF BIRTH	<i>20/01/1999</i>
CLASS	<i>II year B.A. [SEPSY]</i>
REG. NO.	<i>A2010023</i>
FATHER'S NAME	<i>Champalal</i>
MOTHER'S NAME	<i>Bhagu</i>
RESIDENTIAL ADDRESS	<i># 20 Main Road 1 Cross Raghava Nalla Sanyal Madawala, Near Silk Board, Bangalore - 560068.</i>
MOBILE NO. & E-MAIL ID OF CANDIDATE	<i>7338009558 vikramshindhal@1999@gmail.com</i>
PARENT'S CONTACT NO.	<i>9341107773</i>
NAME OF COLLEGE/INSTITUTION	<i>Acharya Patashala College of Arts and Science, N.R. Colony.</i>
COORDINATOR(S) SIGNATURE	<i>[Signature]</i>
FACULTY INCHARGE SIGNATURE	<i>[Signature]</i>

[Signature]
CANDIDATE'S SIGNATURE

[Signature]
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N.R. Colony, Bangalore
4/8/22



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REGISTRATION FORM FOR VALUE ADDED COURSE
2021-2022

COURSE NAME: *Psychology and life*
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Psychology and life</i>
APPLICATION NO:	<i>03</i>

NAME	<i>Neeraja.R.</i>
DATE OF BIRTH	<i>29/04/2002</i>
CLASS	<i>II year BA [SBpsy]</i>
REG. NO.	<i>A2010012</i>
FATHER'S NAME	<i>L.C. Rangappa.</i>
MOTHER'S NAME	<i>Mangula.R</i>
RESIDENTIAL ADDRESS	<i>#46 B.S.K 3rd stage Kathrigere -PPE Bangalore 560085</i>
MOBILE NO. & E-MAIL ID OF CANDIDATE	<i>6366636300 keshichanduk@gmail.com</i>
PARENT'S CONTACT NO.	<i>9481239256</i>
NAME OF COLLEGE/INSTITUTION	<i>A.P.S college of Arts & Science.</i>
COORDINATOR(S) SIGNATURE	<i>[Signature]</i>
FACULTY INCHARGE SIGNATURE	<i>[Signature]</i>

Neeraja.R.
CANDIDATE'S SIGNATURE

[Signature]
PRINCIPAL
4/8/22
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REGISTRATION FORM FOR VALUE ADDED COURSE

2021-2022

COURSE NAME: *Psychology and life*
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Psychology and life.</i>
APPLICATION NO:	<i>04</i>

NAME	<i>Pinki Kumari-R</i>
DATE OF BIRTH	<i>13-05-2002</i>
CLASS	<i>II year B.A (SEpsy)</i>
REG. NO.	<i>A2010014</i>
FATHER'S NAME	<i>Raju Sahani</i>
MOTHER'S NAME	<i>Kinon Devi</i>
RESIDENTIAL ADDRESS	<i># 14, 4th main, 5th cross, Krishna layout Hulimovie B.G Road Bangalore - 5600-76</i>
MOBILE NO. & E-MAIL ID OF CANDIDATE	<i>8904741300 Pinki Kumari6715@gmail.com</i>
PARENT'S CONTACT NO.	<i>9632150338</i>
NAME OF COLLEGE/INSTITUTION	<i>APS college of Arts and Science</i>
COORDINATOR(S) SIGNATURE	<i>[Signature]</i>
FACULTY INCHARGE SIGNATURE	<i>[Signature]</i>

Pinki Kumari-R
CANDIDATE'S SIGNATURE

[Signature]
PRINCIPAL
4/18/22
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REGISTRATION FORM FOR VALUE ADDED COURSE
2021-2022

COURSE NAME: *Psychology & life*
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Psychology and life</i>
APPLICATION NO:	<i>05</i>

NAME	<i>Neha. R</i>
DATE OF BIRTH	<i>01/03/2002</i>
CLASS	<i>II year BA (SEPSY)</i>
REG. NO.	<i>A2010013</i>
FATHER'S NAME	<i>Roopchand Pandit</i>
MOTHER'S NAME	<i>Sushela.</i>
RESIDENTIAL ADDRESS	<i># 85 3rd cross near Ramana ndira. Temple Harinagar. Anjanapura. Bangalore Karnataka. 560062</i>
MOBILE NO. & E-MAIL ID OF CANDIDATE	<i>8147853920 pandithneha.4@gmail.com</i>
PARENT'S CONTACT NO.	<i>8147853920 8105888474</i>
NAME OF COLLEGE/INSTITUTION	<i>A.P.S college of Arts & Science</i>
COORDINATOR(S) SIGNATURE	<i>[Signature]</i>
FACULTY INCHARGE SIGNATURE	<i>[Signature]</i>

Neha. R
CANDIDATE'S SIGNATURE

[Signature]
PRINCIPAL *4/8/22*
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REGISTRATION FORM FOR VALUE ADDED COURSE

2021-2022

COURSE NAME: Psychology & life.
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<u>Psychology & life</u>
APPLICATION NO:	<u>06</u>

NAME	<u>Vinutha.m</u>
DATE OF BIRTH	<u>06/02/2002.</u>
CLASS	<u>IInd year BA SE Poly</u>
REG. NO.	<u>A2010025</u>
FATHER'S NAME	<u>Mangankota.e</u>
MOTHER'S NAME	<u>Mangula.m.</u>
RESIDENTIAL ADDRESS	<u># 620 Kananakote Ayana -pura main road Bangalore 560062</u>
MOBILE NO. & E-MAIL ID OF CANDIDATE	<u>6362887509</u> <u>vinu047@gmail.com</u>
PARENT'S CONTACT NO.	<u>6362887509.</u>
NAME OF COLLEGE/INSTITUTION	<u>APS college of Arts & Science.</u>
COORDINATOR(S) SIGNATURE	<u></u>
FACULTY INCHARGE SIGNATURE	<u></u>

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REGISTRATION FORM FOR VALUE ADDED COURSE

2021-2022

COURSE NAME: *Psychology and Life*
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	PSYCHOLOGY AND LIFE
APPLICATION NO:	07

NAME	HEMALATHA . K . H
DATE OF BIRTH	23/09/2000
CLASS	II year BA (SEPSY)
REG. NO.	A2010009
FATHER'S NAME	NAGARAJA
MOTHER'S NAME	SHARADHA
RESIDENTIAL ADDRESS	# 49/A, Near Abbaiah Naidu Studio Chikkalandra Bangalore South Bangalore - 560061
MOBILE NO. & E-MAIL ID OF CANDIDATE	9535 399145 hema623@gmail.com
PARENT'S CONTACT NO.	6363893793
NAME OF COLLEGE/INSTITUTION	A. P. S COLLEGE OF ARTS AND SCIENCE
COORDINATOR(S) SIGNATURE	<i>[Signature]</i>
FACULTY INCHARGE SIGNATURE	<i>[Signature]</i>

Hemalatha
CANDIDATE'S SIGNATURE

[Signature]
PRINCIPAL 4/8/22
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REGISTRATION FORM FOR VALUE ADDED COURSE

2021-2022

COURSE NAME: *Psychology and life*
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>PSYCHOLOGY & LIFE</i>
APPLICATION NO:	<i>08</i>

NAME	<i>Shandy Thomas</i>
DATE OF BIRTH	<i>14/7/2000</i>
CLASS	<i>II year B.A</i>
REG. NO.	<i>A2010020</i>
FATHER'S NAME	<i>Shaji Thomas</i>
MOTHER'S NAME	<i>Annie shaji</i>
RESIDENTIAL ADDRESS	<i>Shaji villa, friends layout, kothannur Dinne, J.P Nagar, 8th phase. Bangalore - 560078</i>
MOBILE NO. & E-MAIL ID OF CANDIDATE	<i>6362768537</i> <i>Shandythomas147@gmail.com</i>
PARENT'S CONTACT NO.	<i>6360174625</i>
NAME OF COLLEGE/INSTITUTION	<i>APS college of Arts and science</i>
COORDINATOR(S) SIGNATURE	<i>[Signature]</i>
FACULTY INCHARGE SIGNATURE	<i>[Signature]</i>

Shandy
CANDIDATE'S SIGNATURE

[Signature]
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REGISTRATION FORM FOR VALUE ADDED COURSE

2021-2022

COURSE NAME: *Psychology and life*
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Psychology and life</i>
APPLICATION NO:	<i>09</i>

NAME	<i>Sunil Kumar. R</i>
DATE OF BIRTH	<i>19/06/1998</i>
CLASS	<i>IInd year BA SEPSY</i>
REG. NO.	<i>A2010022</i>
FATHER'S NAME	<i>Rajanna. K</i>
MOTHER'S NAME	<i>Roopa. C</i>
RESIDENTIAL ADDRESS	<i>#20 2nd cross uttaraballi Bangalore 560050</i>
MOBILE NO. & E-MAIL ID OF CANDIDATE	<i>9606504403 Sunildevaraballi.1234@gmail.com</i>
PARENT'S CONTACT NO.	<i>9606504403</i>
NAME OF COLLEGE/INSTITUTION	<i>APS college of arts and Science.</i>
COORDINATOR(S) SIGNATURE	<i>[Signature]</i>
FACULTY INCHARGE SIGNATURE	<i>[Signature]</i>

[Signature]
CANDIDATE'S SIGNATURE

[Signature]
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APS College of Arts & Science
N.R. Colony, Bangalore-560 01



A P S COLLEGE OF ARTS AND SCIENCE
NARASIMHARAJA COLONY, BANGALORE - 560 019

REGISTRATION FORM FOR VALUE ADDED COURSE

2021-2022

COURSE NAME: *Psychology and life*
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>PSYCHOLOGY AND LIFE</i>
APPLICATION NO:	<i>10</i>

NAME	<i>Praveen. K.R.</i>
DATE OF BIRTH	<i>15.04.2003.</i>
CLASS	<i>11th year. B.A. SEPSY.</i>
REG. NO.	<i>A2010015.</i>
FATHER'S NAME	<i>RAVI.</i>
MOTHER'S NAME	<i>PAVITHRA.</i>
RESIDENTIAL ADDRESS	<i>#1909. 17th cross. Pipeline road. Kalidasa Circle. Sulimagan. Bangalore 560050.</i>
MOBILE NO. & E-MAIL ID OF CANDIDATE	<i>9901441630 Ksp9475@gmail.com.</i>
PARENT'S CONTACT NO.	<i>6361778901.</i>
NAME OF COLLEGE/INSTITUTION	<i>APS College of Arts and Science.</i>
COORDINATOR(S) SIGNATURE	<i>[Signature]</i>
FACULTY INCHARGE SIGNATURE	<i>[Signature]</i>

[Signature]
CANDIDATE'S SIGNATURE

[Signature]
PRINCIPAL *6/8/24*
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NARASIMHARAJA COLONY, BANGALORE - 560 019

REGISTRATION FORM FOR VALUE ADDED COURSE

2021-2022

COURSE NAME: Psychology and life
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<u>Psychology AND LIFE</u>
APPLICATION NO:	<u>11</u>

NAME	<u>DeeKshith .Raju .R</u>
DATE OF BIRTH	<u>15.09.2001</u>
CLASS	<u>11th year B.A. SEPSY</u>
REG. NO.	<u>A2010007</u>
FATHER'S NAME	<u>Ramesh L</u>
MOTHER'S NAME	<u>Dakshayini K.S</u>
RESIDENTIAL ADDRESS	<u>#1700 Bsk 1st Stage 2nd block. 6th Cross, Sriaivasanagara B,lore - 560050.</u>
MOBILE NO. & E-MAIL ID OF CANDIDATE	<u>8884717285. Rajugowda7172@gmail.com</u>
PARENT'S CONTACT NO.	<u>—</u>
NAME OF COLLEGE/INSTITUTION	<u>A.P.S College of Arts and Science</u>
COORDINATOR(S) SIGNATURE	<u></u>
FACULTY INCHARGE SIGNATURE	<u></u>

CANDIDATE'S SIGNATURE

PRINCIPAL 4/18/22
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REGISTRATION FORM FOR VALUE ADDED COURSE
2021-2022

COURSE NAME: *Psychology and life*
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Psychology and Life</i>
APPLICATION NO:	<i>12</i>

NAME	<i>NAMRATHA - S</i>
DATE OF BIRTH	<i>20/02/1998</i>
CLASS	<i>Ist year . B.A [SEPsy]</i>
REG. NO.	<i>A2010011</i>
FATHER'S NAME	<i>Subbaraju</i>
MOTHER'S NAME	<i>Pushparaju</i>
RESIDENTIAL ADDRESS	<i>#14, 18th Cross, Ananthahalli, Shakar. Nagar. Bangalore-560092.</i>
MOBILE NO. & E-MAIL ID OF CANDIDATE	<i>9036845998 Namatha5662@gmail.com.</i>
PARENT'S CONTACT NO.	<i>9342074559</i>
NAME OF COLLEGE/INSTITUTION	<i>Acharya Patashala College of arts and Science, NR Colony.</i>
COORDINATOR(S) SIGNATURE	<i>[Signature]</i>
FACULTY INCHARGE SIGNATURE	<i>[Signature]</i>

Namatha, S.
CANDIDATE'S SIGNATURE

[Signature]
PRINCIPAL *4/8/22*
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REGISTRATION FORM FOR VALUE ADDED COURSE

2021-2022

COURSE NAME: *Psychology and life*
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	PSYCHOLOGY AND LIFE
APPLICATION NO:	13

NAME	CHARAN.K
DATE OF BIRTH	24-10-1999
CLASS	2 nd year BA (SEPSY)
REG. NO.	A2010005
FATHER'S NAME	KRISHNAPPA
MOTHER'S NAME	MANJULA
RESIDENTIAL ADDRESS	# 7 10 th cross 4 th main Benechunara nagar chunchagatta main Road Konanakunte Post Bangalore-560002
MOBILE NO. & E-MAIL ID OF CANDIDATE	8197130924 charank0033@gmail.com
PARENT'S CONTACT NO.	8660276037
NAME OF COLLEGE/INSTITUTION	APS COLLEGE OF ARTS AND SCIENCE.
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Charan.K

CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR VALUE ADDED COURSE

2021-2022

COURSE NAME: Psychology and Life
COURSE CODE:

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	PSYCHOLOGY & LIFE
APPLICATION NO:	14

NAME	Rohit Kumar S
DATE OF BIRTH	05/02/2008
CLASS	II nd year BA 2 nd Sem
REG. NO.	A2010017
FATHER'S NAME	Prinilas . B.M
MOTHER'S NAME	Dejatha . P
RESIDENTIAL ADDRESS	Podu, S. Bengaluru Hulimangla (H) Bengaluru (H) Anchal (T) Bengaluru
MOBILE NO. & E-MAIL ID OF CANDIDATE	8088171683 rohitthuppirahituppi@gmail
PARENT'S CONTACT NO.	8970780893
NAME OF COLLEGE/INSTITUTION	Acharya patashala College of Arts & Science
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

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REGISTRATION FORM FOR VALUE ADDED COURSE

COURSE NAME: Psychology and life
COURSE CODE: 2021-2022

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	CHADRA SHEKAR-S
APPLICATION NO:	15

NAME	Chandrashekara-s
DATE OF BIRTH	19.05.2000
CLASS	II B.A (SERVY)
REG. NO.	A2010004
FATHER'S NAME	Sriram.
MOTHER'S NAME	Kanthamma
RESIDENTIAL ADDRESS	#3, dhobighat near devegowda petrol. bunk, BSK. 2 nd stage, B'lore
MOBILE NO. & E-MAIL ID OF CANDIDATE	8861842878 srichandusisr79@gmail.com.
PARENT'S CONTACT NO.	8861842878
NAME OF COLLEGE/INSTITUTION	APS College of Arts & Science
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	





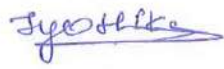
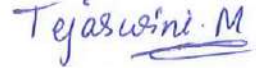

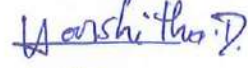






CANDIDATE'S SIGNATURE

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N.R. Colony, Bangalore-560 019.

Date - 1/8/2022
Monday

VALUE ADDED COURSE

Time
2:30 - 4:30

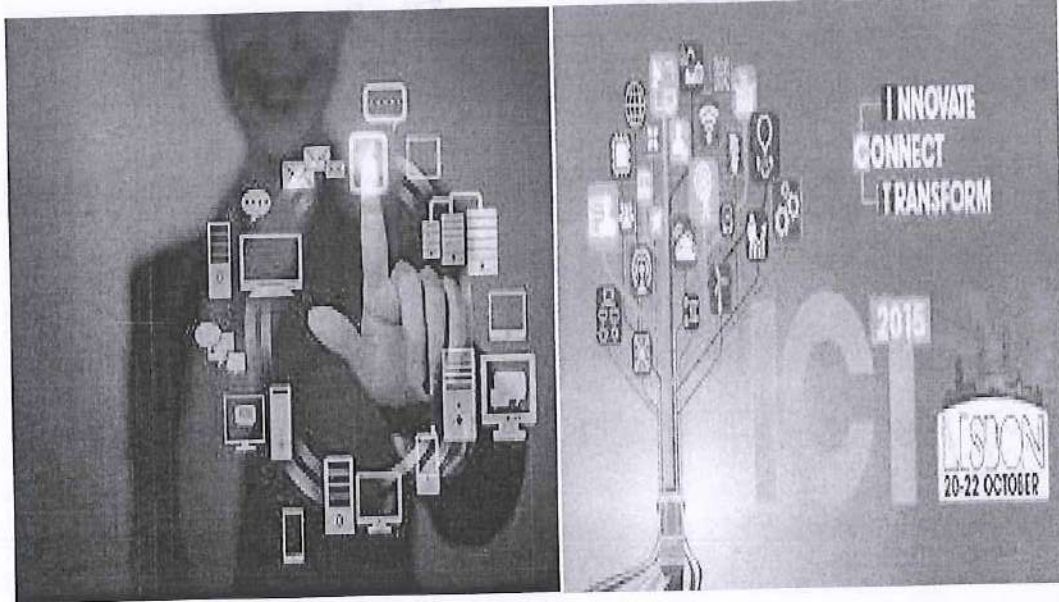
SL-NO	Student Name	Signature of the student.
1	Priya K.D	
2.	Prathiba R	
3.	Meghana.A	
4.	BR Shree Lakshmi	
5.	Jyothika.G	
6.	Tejaswini.M	
7.	Amritha.M	
8.	Harshitha.D	
9.	Hemalatha.P	
10	Mohammed Ajon	
11	Neha.G.Kulkarni	
12.	Vaishnavi K.V	
13.	S.Adithya	
14.	Yogesh.M	



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Narasimharaja Colony, Bangalore –560 019.

Website: apcollegeofartsandscience.com Email: apcollegeofartsscience@gmail.com

ICT Innovation
Application CHALLENGE



TECHNICAL SKILL DEVELOPMENT ON ICT TOOLS

Sathy

Head of the Dept. of Computer Science
APS COLLEGE OF ARTS & SCIENCE

Beefe
PRINCIPAL 6/11/23

APS College of Arts & Science
N.R. Colony, Bangalore-560 019

TECHNICAL SKILL DEVELOPMENT
ON
ICT TOOLS
VALUE ADDED COURSE

COURSE DETAILS 2022-2023

DEPARTMENT : DEPARTMENT OF COMPUTER SCIENCE
NAME OF THE COURSE CO-ORDINATOR : SATYASHREE
MOBILE NO : 9448768634
EMAIL ID : cshodaps@gmail.com
NAME OF THE COURSE : **VALUE ADDED**
NO. OF HOURS : 30 HOURS
VENUE : A P S COLLEGE OF ARTS AND SCIENCE
DAYS AND TIMINGS : WEDNESDAY 2.30 TO 4.30 PM
COMMENCEMENT DATE : 1/08/2022
AND FINISH DATE : 06/01/2023



Head of the Dept. of Computer Science
APS COLLEGE OF ARTS AND SCIENCE


PRINCIPAL
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N.R. Colony, Bangalore-560 019.

SCHEME OF EVALUATION

Pre-requisites: Students currently pursuing Bachelors Degree Course in Computer Applications.

Objectives of the Course: The value added course "TECHNICAL SKILL DEVELOPMENT ON ICT TOOLS " aim

Teaching/Learning Strategies: Presentations, Practically running programs, Assignments.

Evaluation Method:

- Students Enrolling are required to attend all the theory and practical sessions.
- 75% attendance is compulsory and 100% submission of all assignments.

Grading System Followed

Grade	Marks	
A+	100-90	Outstanding
A	89-80	Excellence
B+	79-70	Very Good
B	69-60	Good
C	59-50	Satisfactory

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Syllabus

Slno	Topic Covered	Number of Hours
1	Creating Google Forms	5 Hours/Week Theory and Practicals
2	Scheduling Google Meet	5 Hours/Week Theory and Practicals
3	Screen Sharing and presenting	5 Hours/Week Theory and Practicals
4	Generation of online Certificates using Add-ons	5 Hours/Week Theory and Practicals.
5	Finding the responses	5 Hours/Week Theory and Practicals.
6	Creating Quiz questions	3 Hours/Week Theory and Practicals
7	Adding Images	2 Hours/Week Theory and Practicals.

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Outcomes

- *Interactive White Boards or Smart Boards:*

Interactive White Boards are used when the user wants to project his/her files present in the computer on a large screen. It allows the user to manipulate and discuss in a large gathering.

Eg: 2 or more students working different math problems on the board and the user can control them through the computer and also access the internet simultaneously.

The technology behind interactive whiteboards varies between large format screens with a standalone system on a chip (SOC) and combinations of video projectors or smart projectors that use a tablet or other devices with drivers for user interaction. Forms of operation are often either by infrared or resistive touch, magnetic or ultrasonic pen. As writing and character recognition is generally digitized, keyboards can be almost completely unnecessary. Interactive whiteboard software often includes easy-to-use charts, polls and graphs, including virtual versions of tools one might find in a classroom like rulers compasses or protractors. They can play various types of media and provide teachers with interactive lessons for their students.

- *E-readers:*

An e-reader, also called an e-book reader or e-book device, is a mobile electronic device that is designed primarily for the purpose of reading digital e-books and periodicals.

Eg: Amazon's Kindle Keyboard

- *Flipped Classrooms:*

A flipped classroom is structured around the idea that lecture or direct instruction is not the best use of class time. Instead students encounter information before class, freeing class time for activities that involve higher order thinking.

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : Technical Skill Development on ICT Tool
COURSE CODE : TSDIT01

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	TECHNICAL SKILL DEVELOPMENT ON ICT TOOL.
APPLICATION NO:	01

NAME	SUMANTH.D.N
DATE OF BIRTH	27-11-2001
CLASS	BCA II nd year.
REG. NO.	R2010023
FATHER NAME	Nagaraju.D.M
MOTHER NAME	Chandrakala.K.S
RESIDENTIAL ADDRESS	#69/6, 1 st main, 1 st cross, Paper Krishnappa Compound, Annayyappa geraden, Joraganahalli T.P. Nagar 6 th phase, Bangalore - 560078
MOBILE NO. & E-MAIL OF CANDIDATE	8884656650 SumanSumanth744@gmail.com
PARENT'S CONTACT NO.	7996903844
NAME OF COLLEGE/INSTITUTION	APS College of Arts and Science
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Sumanth.D.N
CANDIDATE'S SIGNATURE


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REGISTRATION FORM FOR CERTIFICATE COURSES

COURSE NAME : ²⁰²¹⁻²⁰²² Technical Skill Development on IOT Tools
COURSE CODE : TSDIT01

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	Value added Course
APPLICATION NO:	et.

NAME	SHASHIREKHA . S
DATE OF BIRTH	18/09/2002
CLASS	2nd year BCA .
REG. NO.	R2010020
FATHER NAME	SHIVA KUMAR .
MOTHER NAME	DIVYA BHARATHI
RESIDENTIAL ADDRESS	# 38 'A' Nagendrablock 10th Main Srinagar Bangalore - 56 .
MOBILE NO. & E-MAIL OF CANDIDATE	8088863642 . Shashirekhasubha@gmail.com
PARENT'S CONTACT NO.	9663650880
NAME OF COLLEGE/INSTITUTION	APS COLLEGE OF ARTS AND SCIENCE
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

CANDIDATE'S SIGNATURE

Shashirekha S

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : Technical Skill Development on ICT Tools
COURSE CODE : TSDTI01

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	Technical skill development on ICT Tool VALUE ADDED COURSE
APPLICATION NO:	02

NAME	CHANDAN S
DATE OF BIRTH	06 - 03 - 2003
CLASS	2 nd Year BCA IV Sem
REG. NO.	R2010001
FATHER NAME	Late Subramanya
MOTHER NAME	Seethamma
RESIDENTIAL ADDRESS	#42, 1 st main road, Adugodi, Koramangala main road, Banga -lore - 560030
MOBILE NO. & E-MAIL OF CANDIDATE	9620440595 Chandansbl107@gmail.com
PARENT'S CONTACT NO.	7204628931
NAME OF COLLEGE/INSTITUTION	APS College of arts and science
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	


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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : *Technical skill Development on ICT Tool*
COURSE CODE : *TSDIT01*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Technical skill Development on ICT Tool</i>
APPLICATION NO:	<i>03</i>

NAME	<i>Shashanka .K</i>
DATE OF BIRTH	<i>22-06-2000</i>
CLASS	<i>BCA - IInd year</i>
REG. NO.	<i>R2010019</i>
FATHER NAME	<i>Kumara B</i>
MOTHER NAME	<i>ROOPA.P</i>
RESIDENTIAL ADDRESS	<i>No.131, 3rd main, 3rd a cross, Chennayyanna Kere achukattu, B S K - IIIrd stage, Bangalore-85</i>
MOBILE NO. & E-MAIL OF CANDIDATE	<i>9740475983 shashanka47261@gmail.com</i>
PARENT'S CONTACT NO.	<i>9611730675</i>
NAME OF COLLEGE/INSTITUTION	<i>APS College of Arts & Science</i>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Shashanka.K
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES
2021-2022

COURSE NAME : *Technical Skill Development on ICT Tool*
COURSE CODE : *TSDIT 01*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Technical Skill development skills on ICT Tool</i>
APPLICATION NO:	<i>04</i>

NAME	<i>Vasum. R</i>
DATE OF BIRTH	<i>18/12/2002</i>
CLASS	
REG. NO.	<i>R2010027</i>
FATHER NAME	<i>RamanaiK. A</i>
MOTHER NAME	<i>Rukmini.bai</i>
RESIDENTIAL ADDRESS	<i>KanakaPudra main Road, Thalgetpu -na Post, ChandraashaKen building near D-Mart Vajrakhalli Bangalore-62</i>
MOBILE NO. & E-MAIL OF CANDIDATE	<i>9980318147 vnaik1396@gmail.com</i>
PARENT'S CONTACT NO.	<i>8861101540</i>
NAME OF COLLEGE/INSTITUTION	<i>APS College of Arts And Science</i>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Vasum. R
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : *Technical skill development on ICT Tool*
COURSE CODE : *TSDIT 01*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Technical skill development on ICT Tool</i>
APPLICATION NO:	<i>05</i>

NAME	<i>Neha . G. Kulkarni</i>
DATE OF BIRTH	<i>12/3/2002</i>
CLASS	<i>IV Sem BCA</i>
REG. NO.	<i>R2010013</i>
FATHER NAME	<i>Govind . S. Kulkarni</i>
MOTHER NAME	<i>Mallika . G. Kulkarni</i>
RESIDENTIAL ADDRESS	<i>11th main harumath nagar banglore</i>
MOBILE NO. & E-MAIL OF CANDIDATE	<i>8277630297 Nehagkulkarni1203@gmail.com</i>
PARENT'S CONTACT NO.	<i>9449696890</i>
NAME OF COLLEGE/INSTITUTION	<i>A.P.S college of Arts & science</i>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Neha . Kulkarni

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : *Technical Skill Development on ICT Tool*
COURSE CODE : *TSDIT 01.*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Technical skill development on ICT tool</i>
APPLICATION NO:	<i>06</i>

NAME	<i>Anitha.P</i>
DATE OF BIRTH	<i>03-05-2003</i>
CLASS	<i>4th SEM (II Year BCA)</i>
REG. NO.	<i>R2010006</i>
FATHER NAME	<i>Puttaswamy</i>
MOTHER NAME	<i>Siddamma.</i>
RESIDENTIAL ADDRESS	<i>#872, 13th MAIN, 4TH CROSS, Bank colony, Srinivasa nagar, Bengaluru.</i>
MOBILE NO. & E-MAIL OF CANDIDATE	<i>8123268784 AnithaP0305@gmail.</i>
PARENT'S CONTACT NO.	<i>9844099876</i>
NAME OF COLLEGE/INSTITUTION	<i>APS college of Arts and Science</i>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Anitha.P
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME :

COURSE CODE :

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	TECHNICAL SKILL DEVELOPMENT ON ICT TOOL
APPLICATION NO:	07

NAME	TEJASWINI . M
DATE OF BIRTH	31-03-2002
CLASS	4 th sem BCA
REG. NO.	R2010024
FATHER NAME	MARASAYYA . C
MOTHER NAME	GEETHA . N
RESIDENTIAL ADDRESS	G2 ANTAKANA DODDI, KAGGALAHALLI (P), HAROHALLI (H), KANAKPURA MAIN ROAD, BANGALORE
MOBILE NO. & E-MAIL OF CANDIDATE	8904690431 teju shetty 3103@gmail.com .
PARENT'S CONTACT NO.	8660550599
NAME OF COLLEGE/INSTITUTION	APS COLLEGE OF ARTS & SCIENCE
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Tejaswini M
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : Technical Skill Development on ICT Tool
COURSE CODE : TSDIT01

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	Technical Skill Development on ICT Tool
APPLICATION NO:	08

NAME	Priyathiba R
DATE OF BIRTH	17/10/2001
CLASS	II year IV Sem BCA
REG. NO.	R2010045
FATHER NAME	Rajendra N.
MOTHER NAME	Leelavathi S.
RESIDENTIAL ADDRESS	#29 Tata Silk form Basavana gudi Bangalore - 04.
MOBILE NO. & E-MAIL OF CANDIDATE	7019467054 Priyathiba 67054@gmail.com
PARENT'S CONTACT NO.	9886611090
NAME OF COLLEGE/INSTITUTION	APS College of Arts and Science
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	


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NARASIMHARAJA COLONY, BANGALORE - 560 019

REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : Technical skill Development on IOT Tool.
COURSE CODE : TSDITOI

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<u>Technical skill development on IOT Tool.</u>
APPLICATION NO:	<u>09</u>

NAME	<u>Priya k.D.</u>
DATE OF BIRTH	<u>08/05/2003</u>
CLASS	<u>2 year BCA</u>
REG. NO.	<u>R2010016</u>
FATHER NAME	<u>Dharmaraju k</u>
MOTHER NAME	<u>chandrakala</u>
RESIDENTIAL ADDRESS	<u>#15 Bross 7th main 7th Block Padmanabnagar Bsk 3rd stage Bangalore - 560085</u>
MOBILE NO. & E-MAIL OF CANDIDATE	<u>886 7565203 Priyacd2003@gmail.com</u>
PARENT'S CONTACT NO.	
NAME OF COLLEGE/INSTITUTION	<u>APS college of Arts & Science</u>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Priya

CANDIDATE'S SIGNATURE

Beuf, 18/22

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : *Technical skill Development on ICT Tool.*
COURSE CODE : *TSDIT01.*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Technical skill development on ICT Tool</i>
APPLICATION NO:	<i>10</i>

NAME	<i>MEGHANA. A.</i>
DATE OF BIRTH	<i>31-10-2002</i>
CLASS	<i>II Year IV Sem BCA.</i>
REG. NO.	<i>R2010011</i>
FATHER NAME	<i>R. ANANTH KUMAR</i>
MOTHER NAME	<i>G. NALINI</i>
RESIDENTIAL ADDRESS	<i>No. 3, S.L.V NILAYA, RAMRAO LAYOUT, KATHRIGUPPE, BANGLORE - 560085</i>
MOBILE NO. & E-MAIL OF CANDIDATE	<i>MOBILE NO. : 9739448873 E-MAIL: meghana2002abhi@gmail.com</i>
PARENT'S CONTACT NO.	<i>9902524386</i>
NAME OF COLLEGE/INSTITUTION	<i>APS COLLEGE OF ARTS AND SCIENCE.</i>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Meghana
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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : *Technical Skill Development on ICT Tool*
COURSE CODE : *TSDIT 101*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Technical skill development on ICT Tool.</i>
APPLICATION NO:	<i>11</i>

NAME	<i>S. Adithya</i>
DATE OF BIRTH	<i>10-08-2001</i>
CLASS	<i>IV Sem BCA</i>
REG. NO.	<i>R2010017</i>
FATHER NAME	<i>S. Anantha Mohan</i>
MOTHER NAME	<i>S. Annaburra</i>
RESIDENTIAL ADDRESS	<i>#598, Prashanthi, 7th Cross, 15th Main, Sri Ram Anjanaya Pooj Srinagar Bangalore - 560050</i>
MOBILE NO. & E-MAIL OF CANDIDATE	<i>63 63 20 3831 aananthamohan 89@gmail.com</i>
PARENT'S CONTACT NO.	<i>8310017922</i>
NAME OF COLLEGE/INSTITUTION	<i>APS College of Arts & Science</i>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

S Adithya
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : *Technical Skill Development on ICT Tool*
COURSE CODE : *TSDIT01*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>VAISHNAVI K.V / VALUE ADDED COURSE</i>
APPLICATION NO:	<i>12</i>

NAME	<i>VAISHNAVI K.V</i>
DATE OF BIRTH	<i>27 / 09 / 2002</i>
CLASS	<i>IInd year BCA</i>
REG. NO.	<i>R2010026</i>
FATHER NAME	<i>VEERARAJE USP K.M</i>
MOTHER NAME	<i>VEENA</i>
RESIDENTIAL ADDRESS	<i>#21 Malavalli "IT", Mandya "D" Kaggala</i>
MOBILE NO. & E-MAIL OF CANDIDATE	<i>9353187228 / 8970358381 Vaishnavi.k.v.27@gmail.com</i>
PARENT'S CONTACT NO.	<i>9980437223</i>
NAME OF COLLEGE/INSTITUTION	<i>Aps college of -Arts and Science</i>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Vaishnavi K.V
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : Technical Skill Development on ICT TOOL
COURSE CODE : TSDITO1

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	Technical skill development on ICT Tool VALUE ADDED COURSE
APPLICATION NO:	13

NAME	HEMALATHA P
DATE OF BIRTH	23/12/2002
CLASS	II nd year B.C.A
REG. NO.	R2010009
FATHER NAME	PRAKASH S.M
MOTHER NAME	MANJULA M
RESIDENTIAL ADDRESS	#126, 2 nd , cross, magadi road, Cholurupalya, near ganesh temple, Bangalore - 560023
MOBILE NO. & E-MAIL OF CANDIDATE	8296193253 hemalatha359@gmail.com
PARENT'S CONTACT NO.	9731653438
NAME OF COLLEGE/INSTITUTION	APS college of arts & science
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REGISTRATION FORM FOR CERTIFICATE COURSES


2021-2022

COURSE NAME : Technical Skill Development on ICT Tool
COURSE CODE : TSDIT 01

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	Technical skill development on ICT Tool
APPLICATION NO:	14

NAME	YOGESH.M
DATE OF BIRTH	26 March 2000
CLASS	2 nd year 4 th sem BCA
REG. NO.	R2010029
FATHER NAME	Madesh . S
MOTHER NAME	Crowni . M
RESIDENTIAL ADDRESS	#501, Dodderamappa building, GPR layout, Hale chandapura Bangalore - 560099
MOBILE NO. & E-MAIL OF CANDIDATE	6360461291 akash.yogesh.2014@gmail.com
PARENT'S CONTACT NO.	7406851210
NAME OF COLLEGE/INSTITUTION	APS College of Arts & Science
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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : Technical skill Development on ICT Tool
COURSE CODE : TSDIT 01

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	Technical skill development on ICT Tool
APPLICATION NO:	15

NAME	Santhosh . R
DATE OF BIRTH	09/10/2003
CLASS	III rd sem 2 year BCA .
REG. NO.	R2010018
FATHER NAME	Rajarithnam . k
MOTHER NAME	Meena . R
RESIDENTIAL ADDRESS	#9 th cross Road Dattatreya Nagar Hoskotehalli , BSK 3 RD stage Bangalore 560085.
MOBILE NO. & E-MAIL OF CANDIDATE	8610482602 Santhosh kumar 8610482602 a gmail . com.
PARENT'S CONTACT NO.	8610482602
NAME OF COLLEGE/INSTITUTION	aps college of ARTS and science
COORDINATOR(S) SIGNATURE	
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Santhosh .
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : Technical skill development on ICT Tool
COURSE CODE : TSDIT 01

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	TECHNICAL SKILL DEVELOPMENT ON ICT TOOL
APPLICATION NO:	16

NAME	Mohammed Ayan YM
DATE OF BIRTH	16/09/2001
CLASS	II year BCA 4 th Sem
REG. NO.	R2010012
FATHER NAME	Mohammed Mustaq
MOTHER NAME	Nasheen
RESIDENTIAL ADDRESS	#13/2, 1st main, 1st cross, Mysore Road, Nayandahalli, near Mysore Road Metro station.
MOBILE NO. & E-MAIL OF CANDIDATE	6361964978 ymmohammedayan672@gmail.com
PARENT'S CONTACT NO.	9513814988
NAME OF COLLEGE/INSTITUTION	APS College of Arts & Science
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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : Technical skill development on ICT Tool
COURSE CODE : TSDIT 01.

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	TECHNICAL SKILL DEVELOPMENT ON ICT TOOL
APPLICATION NO:	17

NAME	Jyothika G
DATE OF BIRTH	10 / 4 / 2001
CLASS	4 th sem BCA
REG. NO.	22010010
FATHER NAME	Govinda swamy .s
MOTHER NAME	Suseela
RESIDENTIAL ADDRESS	#181, 35 th main 4 th cross JP nagar 6 th phase bangalore-78
MOBILE NO. & E-MAIL OF CANDIDATE	8152006943 jyothi636135@gmail.com
PARENT'S CONTACT NO.	9901938399.
NAME OF COLLEGE/INSTITUTION	Aps college of arts & science
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FACULTY INCHARGE SIGNATURE	

Jyothika
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : *Technical Skill development on ICT tool*
COURSE CODE : *TS DIT 01*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	TECHNICAL SKILL DEVELOPMENT ON ICT TOOL
APPLICATION NO:	18

NAME	BR Shree lakshmi
DATE OF BIRTH	11/10/2002
CLASS	
REG. NO.	R2010022
FATHER NAME	BS Raghavendra
MOTHER NAME	BR Harini
RESIDENTIAL ADDRESS	# 25, 5 th main, 6 th cross, near Srihari Kalyana mantapa, Hoysarala Nagar, 1 st BSK III rd stage, Bangalore - 560085
MOBILE NO. & E-MAIL OF CANDIDATE	9036125013 shreelakshmiibhigamudre@gmail.com
PARENT'S CONTACT NO.	9036125013
NAME OF COLLEGE/INSTITUTION	APS College of Arts & Science
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BR Shreelakshmi
CANDIDATE'S SIGNATURE

Shree Lakshmi
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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : *Technical skill development on ICT tools*
COURSE CODE : *TSDIT01*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Technical skill development on ICT TOOL</i>
APPLICATION NO:	<i>19</i>

NAME	<i>PRASAD C.N</i>
DATE OF BIRTH	<i>21/4/2002</i>
CLASS	<i>IInd year BCA</i>
REG. NO.	<i>B2010014</i>
FATHER NAME	<i>NAGARAJU</i>
MOTHER NAME	<i>Gowdamma</i>
RESIDENTIAL ADDRESS	<i># 516, 6th Cross, KSPCC layout, Rajajinagar, Bangalore</i>
MOBILE NO. & E-MAIL OF CANDIDATE	<i>9535065499 Prasad55083@gmail.com</i>
PARENT'S CONTACT NO.	<i>9980553634</i>
NAME OF COLLEGE/INSTITUTION	<i>APS College of Arts & Science</i>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Prasad C.N
CANDIDATE'S SIGNATURE

Prasad C.N
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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : Technical Skill Development on ICT Tools
COURSE CODE : TSD ITO I

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	Technical Skill Development on ICT Tools
APPLICATION NO:	20.

NAME	Harshitha D.
DATE OF BIRTH	11/07/2002
CLASS	II nd Year, 4 th Sem BCA
REG. NO.	R2010008
FATHER NAME	V.B. Dwarakeesha
MOTHER NAME	H.N. Vasanthalakshmi
RESIDENTIAL ADDRESS	#37/2, 1 st Main, 1 st Cross, BTM 1 st stage, Near Govt., Hospital Thavasekere, Bengaluru - 560029
MOBILE NO. & E-MAIL OF CANDIDATE	8197044396 harshithashetty2002@gmail.com
PARENT'S CONTACT NO.	7795103018
NAME OF COLLEGE/INSTITUTION	APS College of Arts and Science
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Harshitha D.
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : *Technical Skill Development on ICT Tool.*
COURSE CODE : *TSDIT01*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Technical Skill Development on ICT Tool</i>
APPLICATION NO:	<i>21.</i>

NAME	<i>Amsutha . M</i>
DATE OF BIRTH	<i>03-09-2002</i>
CLASS	<i>4th Sem 'BCA'</i>
REG. NO.	<i>R2010005</i>
FATHER NAME	<i>Mahableshwar . U.K</i>
MOTHER NAME	<i>Jyothi . M</i>
RESIDENTIAL ADDRESS	<i>#30, 19th cross, 16th main, Mahadeshwara Nagar, BTM layout 2nd Stage, Bangalore -560076</i>
MOBILE NO. & E-MAIL OF CANDIDATE	<i>9739807051 amsutha</i>
PARENT'S CONTACT NO.	<i>9886373896</i>
NAME OF COLLEGE/INSTITUTION	<i>A.P.S. College of Arts and Science</i>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Amsutha . M
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : *technical skill development on ICT tools*
COURSE CODE : *TSDIT01*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	TECHNICAL SKILL DEVELOPMENT ON ICT TOOL
APPLICATION NO:	<i>22</i>

NAME	<i>Ajith kumar</i>
DATE OF BIRTH	<i>01-07-2002</i>
CLASS	<i>2nd year BCA 4th Sem</i>
REG. NO.	<i>R2010004</i>
FATHER NAME	<i>Haji Babu</i>
MOTHER NAME	<i>Sharamamma</i>
RESIDENTIAL ADDRESS	<i>#9 Mahaganapathi temple road Thanamma layout Billekhalli Bangalore 560076</i>
MOBILE NO. & E-MAIL OF CANDIDATE	<i>7899750731 a k 493997@gmail.com</i>
PARENT'S CONTACT NO.	<i>9008970247</i>
NAME OF COLLEGE/INSTITUTION	<i>APS college of Arts & Science</i>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Ajith
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES
2021-2022

COURSE NAME : Technical Skill Development on ICT Tool
COURSE CODE : TSDIT01

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<u>Technical Skill Development on ICT Tool.</u>
APPLICATION NO:	<u>23.</u>

NAME	<u>NEHA V DESHPANDE</u>
DATE OF BIRTH	<u>28-02-2000</u>
CLASS	
REG. NO.	
FATHER NAME	<u>VIJAYKUMAR DESHPANDE</u>
MOTHER NAME	<u>ANJANA DESHPANDE</u>
RESIDENTIAL ADDRESS	<u>#35, 7th CROSS 4th A MAIN SRINIVAS NAGAR, BSK Ist STAGE BENGALURU - 560050</u>
MOBILE NO. & E-MAIL OF CANDIDATE	<u>8147413392</u> <u>nehavd28@gmail.com</u>
PARENT'S CONTACT NO.	<u>9880990437</u>
NAME OF COLLEGE/INSTITUTION	<u>APS COLLEGE OF ARTS & SCIENCE</u>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

NEHA
CANDIDATE'S SIGNATURE

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REGISTRATION FORM FOR CERTIFICATE COURSES

2021-2022

COURSE NAME : *Technical Skill Development on ICT Tools*
COURSE CODE : *TSDT101*

CERTIFICATE COURSE OPTED FOR (WRITE IN BLOCK LETTERS)	<i>Technical Skill development on ICT Tool VALUE ADDED course</i>
APPLICATION NO:	

NAME	<i>GOWTHAMI. N</i>
DATE OF BIRTH	<i>27-10-2001</i>
CLASS	<i>2nd year BCA IV Sem</i>
REG. NO.	<i>R2010007</i>
FATHER NAME	<i>Nagaraj. K</i>
MOTHER NAME	<i>Parvathi</i>
RESIDENTIAL ADDRESS	<i># 24/6, 9th Cross, Rangappa Layout, Diary circle</i>
MOBILE NO. & E-MAIL OF CANDIDATE	<i>7337663301 nagarajnagesindhu@gmail.com</i>
PARENT'S CONTACT NO.	<i>7204556676</i>
NAME OF COLLEGE/INSTITUTION	<i>APS college of arts and science</i>
COORDINATOR(S) SIGNATURE	
FACULTY INCHARGE SIGNATURE	

Gowthami N
CANDIDATE'S SIGNATURE

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A.P.S. College of Arts & Science

Value Added Courses under
Technical Skill Development on
ICT Tool.

Conducted By: Department of
Computer Science.

Course Name: Technical Skill Development
on ICT Tool.

Course Code: TSDIT 01

11. Meghana. A. 01 02 03 04 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30

12. S. Adithya. 01 02 03 04 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30

13. Vaishnavi. k.V. 01 02 03 04 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 22 23 24
25 26 27 28

14. Hemalatha. P. 01 02 03 04 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30

15. Yogesh. M. 01 02 03 04 5 6 7 8 9 10 10 10 11 12 15 16 17 18 19 20 21 22 22 22 23 24
24 24 24 24

16. Sarthach. R. 01 02 03 04 5 6 7 8 9 10 11 12 13 14 14 14 15 16 17 18 19 20 20 20 21 22
23 24 25 26

17. Mohammed Ayaan Y.M. 01 02 03 04 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30

18. Jyothika. G. 01 02 03 04 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30

19. B.R. Shree Lakshmi 01 02 03 04 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 22 22 23 24
25 26 27 28

20. Prajwal. C.N. 01 02 03 04 5 6 7 8 9 10 11 12 12 12 13 14 15 16 17 18 19 20 21 22 23 24
24 24 25 26

21. Harshitha. D. 01 02 03 04 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26
27 28 29 30

~~22~~ ~~23~~ ~~24~~ ~~25~~ ~~26~~ ~~27~~ ~~28~~ ~~29~~ ~~30~~ ~~31~~ ~~32~~ ~~33~~ ~~34~~ ~~35~~ ~~36~~ ~~37~~ ~~38~~ ~~39~~ ~~40~~ ~~41~~ ~~42~~ ~~43~~ ~~44~~ ~~45~~ ~~46~~ ~~47~~ ~~48~~ ~~49~~ ~~50~~

INDEX

DEPARTMENT OF CHEMISTRY

NAME:

SL NO

Date

Title

Page No

Teacher's Sign /
Remarks

SUBJECT:

STD:

SEC:

ROLL NO:

SCHOOL /
COLLEGE:

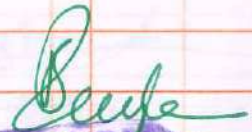
CERTIFICATE

COURSE

Attendance Register

* Total Course Duration : 30 hours.

* Each practical session is for 2 hours.
& theory session



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CERTIFICATE COURSE ON

E-LENT

Page No.

Date: / /

Soap Making

06-08-2022

SL. No	Names of the Student	class	Signature
01	Mangula. S.	IV ^{SEM} BSC (CBZ)	Mangula. S.
02	Roopa. Y. S	IV ^{SEM} BSC (PCM)	Roopa. S.
03	Rekha. Y. S	IV ^{SEM} BSC (PCM)	Rekha
04	Kusuma. M	IV ^{SEM} BSC (PCM)	Kusuma. M
05	Kavyashree. M	IV ^{SEM} B.Sc (PCM)	K. M
06	M. Muskan	IV ^{SEM} B.Sc (CBZ)	M. Muskan
07	Sharmila. J	IV ^{SEM} B.Sc (CBZ)	Sharmila
08	Geetha. S	IV ^{SEM} B.Sc (CBZ)	Geetha. S
09	Dhanalakshmi D.B	IV ^{SEM} B.Sc (PCM)	Dhan
10	Aishwarya R	IV ^{SEM} B.Sc (PCM)	Aishwarya. R
11	Neeraja Shree. B	IV ^{SEM} B.Sc (PCM)	Neeraja. B
12.	Ashwini Hottli	IV ^{SEM} B.Sc (PCM)	A. S. Hottli
13.	Shilpa. M	IV ^{SEM} B.Sc (PCM)	Shilpa
14.	Pooja. R	IV ^{SEM} B.Sc (PCM)	Pooja. R
15	Jagadeesh. C	IV ^{SEM} B.Sc (PCM)	J. C
16	Lokesh. Gowda	IV ^{SEM} B.Sc (CBZ)	Lokesh Gowda
17)	Rajeev. Hk.	IV ^{SEM} B.Sc (CBZ)	Rajeev. M
18)	Vidhaya.	IV ^{SEM} B.Sc (PCM)	Vidhaya
19)	Sumera M.C	IV ^{SEM} B.Sc (PCM)	Sumera
20)	Sheela. S	IV ^{SEM} B.Sc (PCM)	Sheela S
21)	Harshitha. V Kavya	IV ^{SEM} B.Sc (PCM)	Harshitha.
22)	Anarath B.S	IV ^{SEM} B.Sc (PCM)	Anarath
23)	KRUTHIKA T.R	IV ^{SEM} B.Sc (CBZ)	Kruthika
24)	Sandhya. G	IV ^{SEM} B.Sc (CBZ)	Sandhya
25)	Kousalya	IV ^{SEM} B.Sc (CBZ)	Kousalya

Principal

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13/8/2022

SL. NO	Name of the Student	Class	Signature
1	Harshitha . V	IV ^{sem} Bsc (PCM)	Harshitha . V
2	Sheela . S	IV ^{sem} Bsc (PCM)	Sheela . S
3	POOJA . R	IV ^{sem} Bsc (PCM)	Pooja . R
4	DHANUSHA . R	IV ^{sem} Bsc (PCM)	Dhanusha . R
5	Sumera . MC	IV ^{sem} Bsc (PCM)	Sumera . MC
6	M. Muskan	V ^{sem} B.Sc (CBZ)	Muskan . M
7	Sharmila	V ^{sem} B.Sc	Sharmila
8	Laksh Gowda . P	V ^{sem} Bsc (CBZ)	Laksh Gowda . P
9	Aishwarya . R	V ^{sem} B.sc (PCM)	Aishwarya . R
10	Dhanalakshmi . D.B	V ^{sem} B.sc (PCM)	Dhanalakshmi . D.B
11	Bharath . K.S	V ^{sem} B.Sc	Bharath . K.S
12	Neeraja . Shree . B	V ^{sem} B.Sc	Neeraja . B
13			
14	Rajeev . HK	V ^{sem} Bsc	Rajeev . HK
15	KRUTHIKA . H.R	V ^{sem} B. Sc	Kruthika . H.R
16	Sandhya . G	V ^{sem} BSc	Sandhya . G
17	Kausalya	V ^{sem} BSc	Kausalya
18	Greetha . S	V ^{sem} B.Sc	Greetha . S
19	Manjula . S	V ^{sem} B.Sc	Manjula . S
20	Roopa	V ^{sem} PCM	Roopa
21	Rekha	V ^{sem} PCM	Rekha

03/11/2022

SL. NO	Name of the Student	Class	Signature
1.	Sumera . MC	V ^{sem} (PCM)	Sumera . MC
2.	Pooja . R	V ^{sem} (PCM)	Pooja . R
3.	Shilpa . M	V ^{sem} (PCM)	Shilpa . M
4.	Aishwarya . R	V ^{sem} (PCM)	Aishwarya . R
5.	Dhanalakshmi . DB	V ^{sem} (PCM)	Dhanalakshmi . DB
6.	Naryashree . B	V ^{sem} (PCM)	Naryashree . B
7.	Sheela . S	V ^{sem} (PCM)	Sheela . S
8.	Bharath . K.S	V ^{sem} (PCM)	Bharath . K.S
9.	Laksh Gowda . P	V ^{sem} (CBZ)	Laksh Gowda . P
10.	Harshitha . V	V ^{sem} (PCM)	Harshitha . V
11.	Dhanusha . P	V ^{sem} CBZ	Dhanusha . P
12.	Rajeev . HK	V ^{sem} CBZ	Rajeev . HK
13.	Sandhya . G	V ^{sem} CBZ	Sandhya . G
14.	KRUTHIKA . H.R	V ^{sem} CBZ	Kruthika . H.R
15.	Kausalya	V ^{sem} CBZ	Kausalya
16.	M. Muskan	V ^{sem} CBZ	M. Muskan
17.	Sharmila . J	V ^{sem} CBZ	Sharmila . J
18.	Greetha . S	V ^{sem} (CBZ)	Greetha . S
19.	Manjula . S	V ^{sem} CBZ	Manjula . S
20.	Roopa . G	V ^{sem} PCM	Roopa . G
21.	Rekha	V ^{sem} PCM	Rekha

Timetable was altered for the availability of classes of students.

[Signature]

04/11/2022

05/11/2022

SL.NO	Name of the student	Class	Signature
1.	Sumera MC	V sem PCM	<i>Sumera</i>
2.	Aishwarya R	V th sem pcm	<i>Aishwarya R</i>
3.	Dhanalakshmi DB	V th Sem PCM	<i>Dhan</i>
4.	Bharath KS	V sem PCM	<i>Bharath</i>
5.	Naryashree B	V sem PCM	<i>Naryashree B</i>
6.	Shilpa BM	V sem PCM	<i>Shilpa</i>
7.	Sheela S	V sem PCM	<i>Sheela</i>
8.	Pooja R	V sem PCM	<i>Pooja</i>
9.	Laksh Gowda P	V sem (CBZ)	<i>Laksh Gowda P</i>
10.	Harsitha V	V sem (PCM)	<i>Harsitha V</i>
11.	Dhanusha R	V sem (CBZ)	<i>Dhanusha R</i>
12.	Rajeev HK	V sem (CBZ)	<i>Rajeev HK</i>
13.	Sandhya G	V sem (CBZ)	<i>Sandhya G</i>
14.	KRUTHIKA M.R	V sem (CBZ)	<i>Kruthika</i>
15.	Kansalya	V sem (CBZ)	<i>Kansalya</i>
16.	Greetha S	V sem (CBZ)	<i>Greetha S</i>
17.	Sharmila J	V sem (CBZ)	<i>Sharmila</i>
18.	M. Muskan	V sem (CBZ)	<i>M. Muskan</i>
19.	Mangala S	V sem (CBZ)	<i>Mangala S</i>
20.	Roopa	V sem pcm	<i>Roopa</i>
21.	Rekha	V sem pcm	<i>Rekha</i>

SL.NO	Name of the student	Class	Signature
1.	Sumera MC	V sem PCM	<i>Sumera</i>
2.	Aishwarya R	V sem PCM	<i>Ais</i>
3.	Dhanalakshmi DB	V sem PCM	<i>Dhan</i>
4.	Bharath KS	V sem PCM	<i>Bharath</i>
5.	Shilpa BM	V sem PCM	<i>Shilpa</i>
6.	Pooja R	V sem PCM	<i>Pooja</i>
7.	Laksh Gowda P	V sem (CBZ)	<i>Laksh Gowda P</i>
8.	Harsitha V	V sem (PCM)	<i>Harsitha V</i>
9.	Sheela S	V sem (PCM)	<i>Sheela S</i>
10.	Naryashree B	V sem (PCM)	<i>Naryashree B</i>
11.	Dhanusha R	V sem (CBZ)	<i>Dhanusha R</i>
12.	Rajeev HK	V sem (CBZ)	<i>Rajeev HK</i>
13.	KRUTHIKA M.R	V sem (CBZ)	<i>Kruthika</i>
14.	Sandhya G	V sem (CBZ)	<i>Sandhya G</i>
15.	Kansalya	V sem (CBZ)	<i>Kansalya</i>
16.	Sharmila J	V sem (CBZ)	<i>Sharmila J</i>
17.	Greetha S	V sem (CBZ)	<i>Greetha S</i>
18.	M. Muskan	V sem (CBZ)	<i>M. Muskan</i>
19.	Mangala S	V sem (CBZ)	<i>Mangala S</i>
20.	Roopa	V sem pcm	<i>Roopa</i>
21.	Rekha	V sem pcm	<i>Rekha</i>
22.	Roopa	V sem pcm	<i>Roopa</i>

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07/11/2022

SL.NO	Name of the Student	Class	Signature
1.	Sumera MC	V sem PCM	<u>Sumera</u>
2.	Aishwarya R	V sem PCM	<u>Aishwarya.R</u>
3.	Dhanalakshmi DB	V sem PCM	<u>shdha</u>
4.	Pooja R	V sem PCM	<u>Pooja.R</u>
5.	Shilpa .M	V sem PCM	<u>Shilpa.M</u>
6.	Suchithra .S.	V sem PCM	<u>Suchithra</u>
7.	chaithra.M.R	V sem PCM	<u>chaithra</u>
8.	Susheela bai	V sem PCM	<u>Susheela</u>
9.	Sheela .S	V sem PCM	<u>Sheela-S</u>
10.	Harshitha .V	V sem PCM	<u>Harshitha.V</u>
11.	Kavya Shree .M	V sem PCM	<u>Kavya</u>
12.	Naveya Shree .B	V sem PCM	<u>Naveya.B</u>
13.	Jagadish	V sem PCM	<u>Jagadish</u>
14.	Ranjith	V sem PCM	<u>Ranjith</u>
15.	Laksh Gowda P	V sem (CBZ)	<u>Laksh Gowda P</u>
16.	Dhanusha .R	V sem CBZ	<u>Dhanusha.R</u>
17.	Rajeev .HK	V sem CBZ	<u>Rajeev.HK</u>
18.)	KRUTHIKA H.R	V sem CBZ	<u>Kruthika</u>
19.)	Sandhya .G	V sem CBZ	<u>Sandhya</u>
20.)	Kausalya	V sem CBZ	<u>Kausalya</u>
21.)	M .Muskan	VI sem CBZ	<u>M.Muskan</u>
22.)	Greetha .S	VI sem CBZ	<u>Greetha.S</u>
23.)	Sharmila .J	VI sem CBZ	<u>Sharmila</u>
24.)	Manjula .S	VI sem CBZ	<u>Manjula.S</u>
25.)	Roopa	VI sem PCM	<u>Roopa</u>
26.)	Rekha	VI sem PCM	<u>Rekha</u>

08/11/2022

SL.NO	Name of the Student	Class	Signature
1.	Sumera MC	V sem PCM	<u>Sumera</u>
2.	Susheela Bai	V sem PCM	<u>Susheela Bai</u>
3.	Suchithra S	V sem PCM	<u>Suchithra.S</u>
4.	Chaithra MR	V sem PCM	<u>chaithra.M.R</u>
5.	Pooja R	V sem PCM	<u>Pooja.R</u>
6.	Kusuma .M	V sem PCM	<u>Kusuma.M</u>
7.	Bharath KS	V sem PCM	<u>Bharath.K.S</u>
8.	Jagadish C	V sem PCM	<u>Jagadish.C</u>
9.	Laksh Gowda P	V sem (CBZ)	<u>Laksh Gowda P</u>
10.	Aishwarya .R	V sem PCM	<u>Ais</u>
11.	Dhanalakshmi D.B	V sem PCM	<u>Db</u>
12.	Harshitha .V	V sem PCM	<u>Harshitha.V</u>
13.	Sheela .S	V sem PCM	<u>Harshitha.V</u>
14.	Naveya Shree .B	V sem PCM	<u>Naveya.B</u>
15.	Dhanusha .R	V sem CBZ	<u>Dhanusha</u>
16.	Rajeev .HK	V sem (CBZ)	<u>Rajeev.HK</u>
17.)	Sandhya .G	V sem (CBZ)	<u>Sandhya</u>
18.)	KRUTHIKA H.R	V sem (CBZ)	<u>Kruthika</u>
19.)	Kausalya	VI sem CBZ	<u>Kausalya</u>
20.)	M .Muskan	VI sem CBZ	<u>M.Muskan</u>
21.)	Greetha .S	VI sem CBZ	<u>Greetha.S</u>
22.)	Sharmila .J	VI sem CBZ	<u>sharmila</u>
23.)	Manjula .S	VI sem (CBZ)	<u>Manjula.S</u>
24.)	Rekha	VI sem PCM	<u>Rekha</u>
25.)	Roopa	VI sem PCM	<u>Roopa</u>

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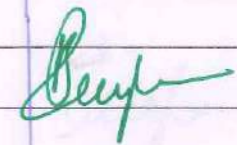
APS College of Arts & Science
N.R. Colony, Bangalore-560 015.

10/11/2022

Sl. No.	Name of the Student	Class	Signature
1)	Lakesh Gowda. P	V sem (CBZ)	Lakesh Gowda P
2)	Aishwarya. R	V Sem PCM	Aish
3)	Dhanalakshmi D.B	V Sem PCM	Dha
4)	Harshitika. V	V Sem PCM	Harshitika. V
5)	Sheela. S	V Sem PCM	Sheela S
6)	Neeraja Shree. B	V sem (PCM)	Neeraja. B
7)	Dhanusha. R	V sem V CBZ	Dhanusha. R
8)	Rajeev. HK	V sem (CBZ)	Rajeev. HK
9)	Sumera M.C	V Sem PCM	Sumera
10)	Sandhya. G	V Sem CBZ	Sandhya.
11)	KRUTHIKA. N.R	V sem CBZ	Kruthika
12)	Kansalya	V Sem CBZ	Kansalya
13)	Greeha. S	V sem CBZ	Greeha S
14)	Sharmila. J	V sem CBZ	Sharmila
15)	M. Muskan	V sem CBZ	M. Muskan
16)	Mangala. S	V sem CBZ	Mangala. S
17)	Roopa	V Sem PCM	Roopa
18)	Rekha	V Sem PCM	Rekha

12/11/2022

Sl. No.	Name of the Student	Class	Signature
1)	Lakesh Gowda. P	V sem (CBZ)	Lakesh Gowda. P
2)	Aishwarya. R	V Sem PCM	Aish
3)	Dhanalakshmi D.B	V Sem PCM	Dha
4)	Neeraja Shree. B	V sem PCM	Neeraja. B
5)	Harshitika. V	V Sem PCM	Harshitika. V
6)	Sheela. S	V sem PCM	Sheela. S
7)	Dhanusha. R	V sem CBZ	Dhanusha. R
8)	Rajeev. HK	V sem CBZ	Rajeev. HK
9)	Sumera M.C	V Sem PCM	Sumera
10)	KRUTHIKA. N.R	V sem CBZ	Kruthika
11)	Sandhya. G	V Sem CBZ	Sandhya
12)	Kansalya	V sem CBZ	Kansalya
13)	Sharmila	V sem CBZ	Sharmila
14)	Muskan. M	V sem CBZ	M. Muskan
15)	Greeha. S	V Sem CBZ	Greeha S
16)	Mangala. S	V Sem CBZ	Mangala. S
17)	Roopa	V sem PCM	Roopa
18)	Rekha	V sem PCM	Rekha



17/11/2022

Sl.No	Name of the Student	Class	Signature
1	Laksh Gowda.P	V sem (CBZ)	Laksh Gowda P
2	Dhanalakshmi D.B	V Sem PCM	Dh
3	Aishwarya.R	V Sem PCM	Aish
4	Naveya Shree.B	V sem (PCM)	Naveya.R
5	Harshitha.V	V Sem (PCM)	Harshitha.V
6	Sheela.S	V Sem PCM	Sheela.S
7	Dhanusha.R	V sem CBZ	Dh
8	Rajeev.HK	V Sem.CBZ	Rajeev.HK
9	Sumera MC	V Sem PCM	Sumera
10	KRUTHIKA H.R	V sem CBZ	Kruthika
11	Sandhya.G	V Sem CBZ	Sandhya
12	Kausalya	V Sem CBZ	Kausalya
13	Geeetha.S	V Sem CBZ	Geeetha.S
14	Sharmila.J	V Sem CBZ	Sharmila
15	M.Muskan	V Sem CBZ	M.Muskan
16	Manjula.S	V sem CBZ	Manjula.
17	Roopa	V Sem PCM	Roopa
18	Rekha	V sem PCM	Rekha

19/11/2022

Sl.No	Name of the Student	Class	Signature
1	Laksh Gowda.P	V sem (CBZ)	Laksh Gowda.P
2	Aishwarya.R	V Sem PCM	Aish
3	Dhanalakshmi.D.B	V Sem PCM	Dh
4	Harshitha.V	V Sem PCM	Harshitha.V
5	Sheela.S	V Sem PCM	Sheela.S
6	Naveya Shree.B	V sem PCM	Naveya.B
7	Dhanusha.R	V sem CBZ	Dh
8	Rajeev.HK	V sem CBZ	Rajeev.HK
9	Sumera MC	V Sem PCM	Sumera
10	Sandhya.G	V Sem CBZ	Sandhya
11	KRUTHIKA H.R	V Sem CBZ	Kruthika
12	Kausalya	V sem CBZ	Kausalya
13	M.Muskan	V Sem CBZ	M.Muskan
14	Sharmila.J	V Sem CBZ	Sharmila
15	Geeetha.S	V sem CBZ	Geeetha.S
16	Manjula.S	V Sem CBZ	Manjula.S
17	Roopa	V Sem PCM	Roopa
18	Rekha	V sem PCM	Rekha

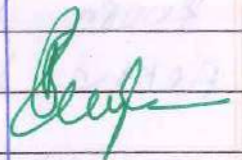
[Signature]

24/11/2022

Sl.No.	Name of the Student	Class	Signature
1)	Laksh Gowda . P	V sem (CBZ)	Laksh Gowda . P
2)	Harshitha . V	V sem PCM	Harshitha . V
3)	Sheela . S	V sem PCM	Sheela . S
4)	Navya Shree . B	V sem PCM	Navya . B
5)	Dhanusha . R	V sem CBZ	Dhanusha . R
6)	Rajeev . HK	V sem CBZ	Rajeev
7)	Sumera MC	V sem PCM	Sumera
8)	Sandhya . G	V sem CBZ	Sandhya
9)	KRUTHIKA M.R	V sem CBZ	Kruthika
10)	Kausalya	V sem CBZ	Kausalya
11)	Geetha . S	V sem CBZ	Geetha S
12)	Sharmila . S	V sem CBZ	Sharmila
13)	M Muskan . M	V sem CBZ	M Muskan
14)	Manjula . S	V sem CBZ	Manjula . S
15)	Roopa	V sem PCM	Roopa
16)	Rekha	V sem PCM	Rekha

26/11/2022

Sl.No.	Name of the Student	Class	Signature
1)	Laksh Gowda . P	V sem (CBZ)	Laksh Gowda . P
2)	Navya Shree . B	V sem PCM	Navya . B
3)	Harshitha . V	V sem PCM	Harshitha . V
4)	Sheela . S	V sem PCM	Sheela . S
5)	Dhanusha . R	V sem CBZ	Dhanusha . R
6)	Rajeev . HK	V sem CBZ	Rajeev . HK
7)	Sumera MC	V sem PCM	Sumera
8)	KRUTHIKA M.R	V sem CBZ	Kruthika
9)	Sandhya . G	V sem CBZ	Sandhya . G
10)	Kausalya	V sem CBZ	Kausalya
11)	M Muskan	V sem CBZ	M Muskan
12)	Sharmila J	V sem CBZ	Sharmila
13)	Geetha S	V sem CBZ	Geetha S
14)	Manjula . S	V sem CBZ	Manjula . S
15)	Roopa	V sem PCM	Roopa
16)	Rekha	V sem PCM	Rekha

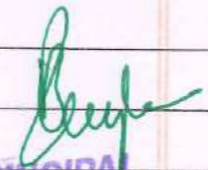


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3/12/2022

Sl.No.	Name of the Student	Class	Signature
1	Aakash Gowda P	V sem (CBZ)	Aakash Gowda P
2	Dhana Lakshmi D.B	V Sem PCM	_____
3	Aishwarya R	V Sem PCM	Dha
4	Harshitha V	V Sem PCM	Harsh
5	Sheetal S	V Sem PCM	Sheetal
6	Navaya Slova D	V sem PCM	Navaya - B
7	Dhanusha R	V sem CBZ	_____
8	Rajeev HK	V sem CBZ	Rajeev
9	Sumera MC	V Sem PCM	_____
10	KRUTHIKA H.R	V sem CBZ	_____
11	Sandhya G	V sem CBZ	Sandhya
12	Kausalya	V sem CBZ	_____
13	Geetha S	V sem CBZ	Geetha S
14	Sharmila S	V Sem CBZ	Sharmila
15	Muskan M	V sem CBZ	M Muskan
16	Manjula S	V sem CBZ	Manjula
17	Rupa Y-S	V Sem PCM	_____
18	Rekha Y-S	V sem PCM	_____


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10/12/2022

A test for students was conducted on the syllabus of their certificate course - Soap Making. The test contained both objective and theory based questions.

Following are the questions that were given:

MCQ's: - 8 x 2 = 16 Marks.

- Soaps are _____ based soapy detergents.
 - Water
 - Kerosene
 - Oil
 - Acid
- The saponification of a fat or oil is done using _____ solution for hot process.
 - KOH
 - NaOH
 - HCl
 - NaCl
- The saponification of a fat or oil is done using _____ solution for cold process.
 - KOH
 - NaOH
 - HCl
 - NaCl

4.) Soft soaps are the limitation of hot process because of their _____

- a.) High alkalinity
- b.) Low alkalinity
- c.) Low solubility in water
- d.) High solubility in water.

5.) Select the incorrect statement from the following option.

- a.) Hard soaps are the sodium carboxylates
- b.) Soft soaps are potassium carboxylates
- c.) Hard soaps are manufactured by cold process
- d.) Example of soft soap - shampoo & shaving cream.

6.) Which of the following is the residual product in the formation of soap?

- a.) Glyceraldehyde
- b.) Glycerol
- c.) Glycerine
- d.) Acrylonitrile

7.) Which of the following is a typical soap molecule?

- a.) Calcium stearate
- b.) Potassium permanganate
- c.) Sodium bicarbonate
- d.) Sodium Stearate.

8.) Select the ~~correct~~ Soaps do not act efficiently in hard water and in acidic solution.

- a.) True
- b.) False.

II. Not included.

1.) Explain in detail about the ingredients used and the steps followed in the course of soap making.

- 4 Marks.

2.) Give the applications of Soap and its products in various fields.

- 5 Marks.

MCG

2 Marks each.

9.) Which of these chemicals is used to dissolve the soap to make a transparent soap.

- a.) Ethanoic acid
- b.) Ethanol
- c.) Benzene
- d.) propylene

10.) Which of the following is the product of saponification process?

- a.) Ethanoic acid
- b.) Ethanol
- c.) Butanaldehyde
- d.) Glycerol

11.) What are the structures formed by the soap molecules, during cleansing known as

- a.) Stereates
- b.) esters
- c.) Micelles
- d.) Tubes

12.) These are the first soap makers in 2800 B.C. except

- 12) (a) Mesopotamians (b) Egyptians
 (c) Ancient monks (d) Romans

13) Synthetic detergents are better

13) The chemical added to soaps to impart antiseptic properties is

- (a) Salvarsan (b) Bithional
 (c) paracetamol (d) Iodine

14) The function of glycerol in the soap is

- (a) That of a filler
 (b) To increase lathering
 (c) To prevent rapid drying
 (d) To make soap granules

15) Which of the following is an ordinary soap

- (a) Sodium stearate (b) Calcium stearate
 (c) Sodium acetate (d) Sodium benzoate

16) Bath soap is a mixture of

- (a) Potassium salts of higher fatty acids
 (b) Sodium and calcium salts of higher fatty acids
 (c) Potassium palmitate and sodium stearate
 (d) sodium salts of higher fatty acids

17) Which of the following is not used in the preparation of soap

- (a) Palmitic acid (b) Stearic acid
 (c) Lauric acid (d) Benzoic acid

18) The process of manufacturing of soap is called

- (a) Ion exchange (b) Alphonation
 (c) Saponification (d) Steam distillation

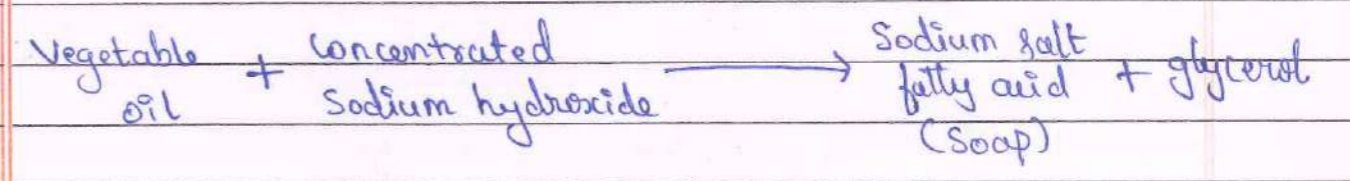
19) Sodium chloride needs to be added during the process of making soap in order to

- (a) avoid the formation of scum
 (b) absorb the excess oil
 (c) lower the boiling point of soap
 (d) reduce the solubility of soap in water

20) which of the following is the function of soap

- (a) To reduce the evaporation of water in air
 (b) To combine with calcium ion in water
 (c) To reduce the surface tension of water
 (d) To change hard water into soft water

Structured question (5 marks)



21. (a) Name the above reaction
22. (b) State one substance that needs to be added into the mixture in order to separate soap
 (c) If sodium palmitate is the type of soap produced
23. (i) what type of vegetable oil is used?
24. (ii) what type of fatty acid can be found in the vegetable oil.
25. (d) If a potassium salt 'fatty acid is the type of soap that needs to be prepared, what type of alkali should be used?

Ans: (a) Saponification / alkaline hydrolysis

(b) Sodium chloride

(c) (i) Glycerol tripalmitate
 (d) Potassium hydroxide.

(ii) palmitic acid



APS EDUCATIONAL TRUST (R)

(Estd 1935)

APS COLLEGE OF ARTS & SCIENCE

N.R COLONY, BENGALURU - 560 019



CERTIFICATE

The College records with pleasure that.....**RATEEV. H. K.**.....

of **I. Sem. B.Sc.**.....has successfully completed a certificate course of**30 Hrs**.....

in**“ Soap Making ”**..... with grade conducted by the

department of**CHEMISTRY**..... during the year.....**2022 - 2023**..

Date: **10:12:2022**

M. S. Sivalbairi
Programme Co-Ordinator

Sanku

Principal

Grades: O=Outstanding(80-100) A: Excellent(70-79) B: Good(55-69) C: Average (40-54) 1 Credit - 30hours of instruction.

APS College of Arts & Science
N.R. Colony, Bangalore-560
1 Credit - 30hours of instruction.



APS EDUCATIONAL TRUST (R)
(Estd 1935)

APS COLLEGE OF ARTS & SCIENCE

N.R COLONY, BENGALURU - 560 019



CERTIFICATE

The College records with pleasure that.....**RANJITH. B**.....
of **V.Sem B.Sc**.....has successfully completed a certificate course of**30 Hrs**.....
in**Soap Making**..... with grade conducted by the
department of**CHEMISTRY**..... during the year.....**2022 - 2023**.

Date: **10:12:2022**

M. Sanebari
Programme Co-Ordinator

Beek

Principal

Grades: O=Outstanding(80-100)

A: Excellent(70-79)

B: Good(55-69)

C: Average (40-54)

1 Credit - 30hours of Instruction.

APS College of Arts & Science
N.R. Colony, Bangalore-560 019



Acharya Pathasala College of Arts & Science
Narasimharaja Colony, Bangalore –560 019.

Website: apscollegeofartsandscience.com Email: apscollegeofartsscience@gmail.com

Dr.B.Jayashree M.Sc., M.Phil., Ph.D.
I/C Principal

No. APSAS /237 A / 2022-2023

Dated: 29 -07-2022

CIRCULAR

Students of IV Semester BA, B.Sc and BCA are hereby informed that Value added/Certificate courses will be conducted for free of cost during August 2022 for 30 hours as per the notified time table. This will enhance your skills and increase your employability. Certificate will be issued after the successful completion of the course.

Interested IV Semester BA, B.Sc and BCA students are hereby informed to register your name with respective course coordinators.

1. Mrs. Sathyashree – Department of Computer Science
2. Dr. Narasimha Parvathikar - Department of Physics
3. Mrs. Sona Bai – Department of Chemistry
4. Mrs. Harshitha.S – Department of Psychology

Semp-29/7/22
Principal

PRINCIPAL
APS College of Arts & Science
N.R. Colony, Bangalore-560 019.



Acharya Pathasala College of Arts & Science
Narasimharaja Colony, Bangalore -560 019.

Website: apscollegeofartsandscience.com Email: apscollegeofartsscience@gmail.com

No. APSAS / 199 / 2022-2023

Dated: 13 -07-2022

CIRCULAR

All the Heads of the Department are hereby informed that Life Skill/add on courses will be conducted for the academic year 2021-22. Courses in Kannada, Physics, Mathematics, Chemistry, Psychology, Humanities and Computer Science are scheduled to be conducted from first week of August 2022 for 4th Semester B.A, B.Sc and B.C.A students. Each of the courses will be conducted for 30 hrs duration. HODs are required to submit the Syllabus and time table before 20th July 2022 as it has to be approved in GC meeting.


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Website: apscollegeofartsandscience.com Email: apscollegeofartsscience@gmail.com

Dr.B.Jayashree M.Sc., M.Phil., Ph.D.
I/C Principal

Dated: 29 -07-2022

**Time Table for Add on/Certificate Course for the Academic year 2021-22 for
2nd year B.A, B.SC and BCA**

DEPARTMENT	DAY	TIME	STUDENTS
COMPUTER SCIENCE	Monday	2:30 – 4:30 pm	IV Sem BCA & Interested Students from B.Sc & BA
PHYSICS	Friday	3:30 – 5:30 pm	IV Sem PCM & BCA
CHEMISTRY	Saturday	1:30 – 3:30 pm	IV Sem PCM & CBZ
PSYCHOLOGY	Wednesday	3:30 – 5:30 pm	IV Sem BA & BSC

Dr. B. Jayashree
Principal 29/7/22
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APS College of Arts & Science
N.R. Colony, Bangalore-560 019.

ACHARYA PATHASALA COLLEGE OF ARTS AND SCIENCE

N.R. COLONY BANGALORE 560019

DEPARTMENT OF CHEMISTRY

SYLLABUS FOR SOAP MAKING COURSE:

The 30 hrs course on "Soap Making" was divided into theory and practical sessions.

Theory sessions helped the students to understand in detail about the History of the soap making, the ingredients used, the applications of the soaps made, challenges faced and so on.

Practical sessions helped them to create their own desirable soaps with variations of color, fragrance and shape.

Detailed Course Breakdown:

Theory:

Unit-1: Introduction to oil and fats:

(2hours)

- 1.1 Classification, structure and sources of oil and fats
- 1.2 Natural sources of oils and fats in India

Unit-2: Soaps:

(4hours)

- 2.1 Introduction to soaps, synthetic detergents, raw materials and its selection
- 2.2 Principles of soap making and chemistry of soap
- 2.3 Boiling, Saponification process.

Unit-3: Detergents:

(4hours)

- 3.1 Types of detergents, classification of detergents (anionic, cationic, nonionic, amphoteric), biodegradability.
- 3.2 Inorganic compounds of detergents (builder & other additives, phosphates, silicates, zeolites, etc)

Unit-4: Synthetic detergents:

(8hours)

- 4.1 Organic raw materials for manufacturing of fatty acids, olefins, alkylbenzene, methyl esters, fatty amines, ethylene oxide, propylene oxide sources and manufacture.
- 4.2 Inorganic raw material for sulphonation viz; sulphuric acid, sulphonic acid, oleum, sulphur trioxide, chlorosulphonic acid.
- 4.3 Sulphonation of organic raw materials like fatty acids, fatty acids ethoxylates plants and processes.
- 4.4 Sulphonation of alkylbenzene, olefins & vegetable oils, plants and processes.

Practicals: Development of Hands-on Skills:

(10 hours)

Making Different varieties of Soaps by using different ingredients, different fragrances and altering the compositions of the chemicals used to obtain Soaps of various colors and shapes. Preparation of Mild Shampoos and bath salts were attempted.

Beefe 6/8/22

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ACHARYA PATHASALA COLLEGE OF ARTS AND SCIENCE

N.R. COLONY BANGALORE 560019

DEPARTMENT OF CHEMISTRY

REPORT ON CERTIFICATE COURSE FOR THE ACADEMIC YEAR 2022-2023

"SOAP MAKING"

A certificate program is a specialized educational course designed to develop or strengthen their experimental abilities. It builds knowledge on specific topics related to particular career or industry. It enhances their confidence and helps them to become successful entrepreneurs in the future. Certificate course helps an individual to showcase his competency, commitment and to build expertise in his professional subject area.

OBJECTIVES:

- Skill development for detergent cake and liquid soap, shampoo, hand wash making.
- Knowledge of basic concepts and techniques of soap and detergent industry.
- Understanding of oil, fat and their sources in India.

Inauguration of certificate course was done by the Department of Chemistry on 6th August 2022. Our Principal Dr. B Jayashree sent best wishes for the programme. The programme was inaugurated by Smt. Vasanthi. K, Assistant Professor, Department of Sociology. The programme was anchored by Sumera M C of V semester B Sc. The course started under the guidance of Smt. Sona Bai. HOD. Department of Chemistry and Dr. Vandhana, Assistant Professor, Department of Chemistry.



Soap making procedure was selected for the certificate course because the current trend for handcrafted products shows no sign of waning. Today, more than ever, consumers are drawn to the authenticity and quality of homemade items. Handmade soaps, especially, have seen an upsurge in demand, gracing the shelves of boutique stores, salons, and even restaurants. This resurgence of interest in artisanal products presents a golden opportunity for those skilled in the craft. And this course is the gateway to that world.

Soap making course was divided into theory and practical sessions. Theory Sessions covered all the theoretical aspects required for the course and Practical Sessions gave them the exposure to work independently in the lab.

Students enthusiastically participated and performed the procedures well. They used different types of oil, caustic soda and natural flavors like sandal, lime, jasmine, and lavender. Expected results were obtained. An assessment in form of multiple choice questions was conducted for the students on December 17th 2022 to assess the knowledge gained by them on this topic. The students performed well and a positive feedback was obtained for the course.



OUTCOME:

- Students got an idea about the procedure, list of ingredients used and the advantages of naturally made soaps.
- Students were able to understand the rich history of soap-making.
- Master a variety of soap recipes, from aromatherapy to specialty soaps.
- Troubleshoot common issues with practical solutions.
- Students got Hands on Skills training to perform the procedures well.

Around 20 students regularly attended the programme and completed the course successfully and certificates were issued for the same.



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APS college of Arts and Science

N.R colony Bangalore-560019

Department of Chemistry

Duration: 1 hr

Date: 10/12/2022

Examination - Certificate course on Soap making

Register No. : S2010019

42
50
\$

Answer the all the following questions each question carries two marks

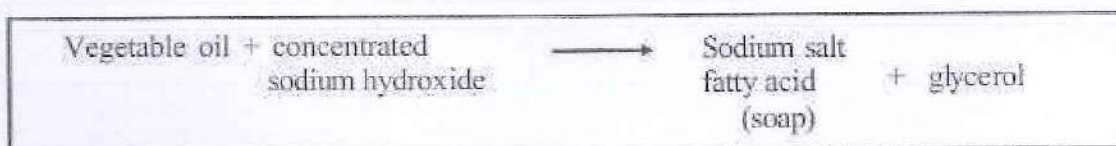
(25 X 2 = 50)

- 1) Soaps are _____ based soapy detergents.
a) Water b) Kerosene c) Oil d) Acid
- 2) The saponification of a fat or oil is done using _____ solution for hot process.
a) KOH b) NaOH c) HCl d) NaCl
- 3) Soft soaps are the limitation of hot process because of their _____.
a) High alkalinity
b) Low alkalinity
c) Low solubility in water
d) High solubility in water
- 4) The saponification of a fat or oil is done using _____ solution for cold process.
a) KOH b) NaOH c) HCl d) NaCl
- 5) Select the incorrect statement from the following option.
a) Hard soaps are the sodium carboxylates
b) Soft soaps are potassium carboxylates
c) Hard soaps are manufactured by cold process
d) Example of soft soap – shampoo and shaving cream
- 6) Which of the following is the residual product in the formation of soap?
a) Glyceraldehyde c) Glycerol
b) Glycerine d) Acrylonitrile
- 7) Which of the following is a typical soap molecule?
a) Calcium stearate c) Sodium bicarbonate
b) Potassium permanganate d) Sodium stearate
- 8) Soaps do not act efficiently in hard water and in acidic solution.
a) True b) False
- 9) Which of these chemicals is used to dissolve the soap to make a transparent soap
a) Ethanoic acid c) Ethanol
b) Benzene d) Propylene
- 10) Which of the following is the product of saponification process?
a) Ethanoic acid c) Ethanol
b) Butanaldehyde d) Glycerol
- 11) What are the structures formed by the soap molecules, during cleansing known as
a) Stereates b) Esters c) Micelles d) Tubes

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- 12) These are the first soap makers in 2800 BC except
- a) Mesopotamians c) Egyptians
 b) Ancient monks d) Romans
- 13) The chemical added to soaps to impart antiseptic properties is
- a) Salvarsan b) Bithional
 d) Iodine
- 14) The function of glycerol in the soap is
- a) That of a filler
 b) To increase lathering
 c) To prevent rapid drying
 d) To make soap granules
- 15) Which of the following is an ordinary soap
- a) Sodium stearate c) Calcium stearate
 b) Sodium acetate d) Sodium benzoate
- 16) Bath soap is a mixture of
- a) Potassium salts of higher fatty acids
 b) Sodium and calcium salts of higher fatty acids
 c) Potassium palmitate and sodium stearate
 d) Sodium salts of higher fatty acids
- 17) Which of the following is not used in the preparation of soap
- a) Palmitic acid c) Stearic acid
 b) Lauric acid d) Benzoic acid
- 18) *The process of manufacturing of soap is called:*
- a) Ion exchange b) Alphonation
 b) Saponification d) Steam distillation
- 19) Sodium chloride needs to be added during the process of making soap in order to
- a) Avoid the formation of scum
 b) Absorb the excess oil
 c) Lower the boiling point of soap
 d) Reduce the solubility of soap in water
- 20) Which of the following is the function of soap
- a) To reduce the evaporation of water in air
 b) To combine with calcium ion in water
 c) To reduce the surface tension of water
 d) To change hard water into soft water

Answer the following question by analysing the given chemical equation



- 21) Name the above reaction
- a) Saponification c) Electrolysis
 b) Ion disintegration d) Redox reaction

22) State one substance that needs to be added into the mixture in order to separate soap

- a) KOH b) Sodium chloride c) H₂SO₄ d) NaOH

If sodium palmitate is the type of soap produced

23) What type of vegetable oil is used?

- a) Glycerol tripalmitate c) Butanaldehyde
b) Acrylonitrile d) Stearates

24) What type of fatty acid can be found in the vegetable oil

- a) HCl b) Palmitic acid c) Lauric acid d) Benzoic acid

25) If a potassium salt fatty acid is the type of soap that needs to be prepared. What type of alkali should be used?

- a) Sodium stearate c) Potassium Hydroxide
b) Sodium benzoate d) Sodium acetate

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Chemistry

Duration: 1 hr

Date: 10/12/2022

Examination - Certificate course on Soap making

Register No. : S2010014

32
50

Answer the all the following questions each question carries two marks

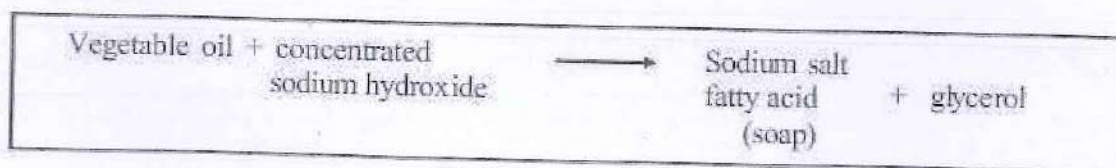
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b) Sodium benzoate d) Sodium acetate

DEPARTMENT OF PHYSICS

CERTIFICATE COURSE IN RENEWABLE ENERGY RESOURCES

Start Date : 04-08-2022

Course Co-ordinator : Dr. Nassimha Permatas

Course Duration - 30 hours

APS College of Arts and Science.
Department of Physics
CERTIFICATE COURSE IN
RENEWABLE ENERGY RESOURCES.

Start Date: 4.08.2022

Duration: 30hrs

Number of Students Registered for the Course.

Sl-NO	NAME OF STUDENT	REGISTER NO.	SIGNATURE
01	Ranjith. B	S2010019	Ranjith. B
02	Shilpa M	S2010020	Shilpa M.
03	Susheela Bai	S2010021	Susheela Bai
04	Vaibhav Harish pawar	S2010022	Vaibhav harish.
05	Aishwarya. R	S2010023	Aishwarya R
06	Ashwini Hatti	S2010024	Ashwini
07	Bharath. K.S	S2010025	Bharath. ks
08	Chaitra MR	S2010026	chaitra MR
09	Chandu MK	S2010027	Chandu. MK
10	Dhanalakshmi DB	S2010028	Dhanalakshmi. D
11	Harshitha V	S2010029	Harshitha. V.
12	Jagadish. C	S2010031	Jagadish. c
13	Kavyashree. M	S2010033	Kavyashree. M
14	Kusuma M	S2010034	Kusuma. M
15	Navyashree B	S2010035	Navyashree. B
16	Pooja	S2010036	Pooja
17	Ranjitha AM	S2010037	Ranjitha. Am
18	Rekha YS	S2010038	Rekha. ys
19	Roopa YS	S2010039	Roopa. YS
20	Sheela S	S2010040	Sheela. S
21	Suchithra S	S2010041	Suchithra S
22	Sumera MC	S2010042	Sumera. MC

SL NO	NAME OF STUDENT	REGISTER NO.	SIGNATURE
23	Kruthika M.R	S2010001	Kruthika. M.
24	M Muskan	S2010002	M. Muskan
25	Geeetha S	S2010008	Geeetha. S
26	Lokesh Gowda P	S2010012	Lokesh. P
27	Manjula S	S2010013	Manjula. S
28	Rajeev HK	S2010014	Rajeev. H.K.
29	Sharmila J	S2010015	Sharmila. J
30	Sushmitha S	S2010016	Sushmitha. S

N. Parvathidevi
4/8/22
Course co-ordinator

Beep 4/8/22

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Sl no.	Name of the Student	Reg. No. S2010 (cy3)	Classes Conducted on											Examinations																		
			5/8/22	5/8/22	12/8/22	12/8/22	19/8/22	19/8/22	4/11/22	4/11/22	11/11/22	11/11/22	18/11/22	18/11/22	25/11/22	25/11/22	2/12/22	2/12/22	9/12/22	9/12/22	15/12/22	15/12/22	6/1/23	6/1/23	20/1/23	20/1/23	27/1/23	27/1/23	10/2/23	10/2/23	17/2/23	17/2/23
01	Ranjith B	019	P	P	P	Ab	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	Ab	P	P	P	P
02	Shilpa M	020	P	Ab	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	
03	Susheela Bai	021	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	
04	Vaibhaw Harish	022	Ab	P	P	P	P	P	Ab	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
05	Aishwarya R	023	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	Ab	P	Ab	P	P	
06	Akhwini Hotti	024	P	P	Ab	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	Ab	P	P	P	P	P	P	P	P	Ab	P	P	
07	Bharath K.S	025	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	
08	Chaitra MR	026	P	Ab	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	
09	Chandu M K	027	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	Ab	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	
10	Dharmalakshmi DB	028	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	Ab	P	P	P	P	
11	Harishtha V	029	P	P	Ab	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	
12	Jagadish C	031	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	Ab	P	P	Ab	P	Ab	P	P	P	P	P	P	P	P	P	
13	Kavyashree M	033	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	Ab	Ab	
14	Kuruma M	034	P	P	P	P	P	P	Ab	Ab	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
15	Navyashree B	035	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	Ab	P	P	
16	Pooja	036	P	P	Ab	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
17	Ranjitha AM	037	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	
18	Rekha YS	038	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
19	Roopa YS	039	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	
20	Shella S	040	P	P	P	P	P	P	P	P	P	Ab	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	
21	Suchithra S	041	P	P	P	P	P	Ab	P	P	P	P	P	P	Ab	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	
22	Sumera M C	042	Ab	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	
23	Kruthika MR	001	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	
24	M Muskan	002	P	P	P	P	P	P	P	P	P	Ab	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	
25	Greetha S	008	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	Ab	P	P	
26	Lokesh Gowda P	012	P	Ab	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	
27	Mangula S	013	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	Ab	P	P	P	P	P	Ab	P	P	P	P	P	P	P	Ab	
28	Rajeev H K	014	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	Ab	P	P	P	P	P	P	P	P	Ab	
29	Shanmika J	015	P	P	P	P	Ab	P	P	P	P	P	P	Ab	P	P	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	
30	Sushmitha S	016	P	P	P	P	P	P	Ab	P	P	P	P	Ab	P	P	P	P	P	P	P	P	P	P	P	P	Ab	P	P	P	P	

Signature

(Handwritten signatures of students)

Sl no.	Name of the student	Register number	Attendance (out of 30)	Marks obtained (out of 50)
01	Ranjith. B	S2010019	26	38
02	Shilpa M	S2010020	27	34
03	Susheela Bai	S2010021	27	42
04	Vaibhav Harish	S2010022	27	34
05	Aishwarya R	S2010023	27	32
06	Ashwini Hotti	S2010024	26	30
07	Bharath. k.S	S2010025	27	30
08	Chaitra M.R	S2010026	27	32
09	Chandu M k	S2010027	27	28
10	Dhanalakshmi DB	S2010028	27	30
11	Harshitha. V	S2010029	27	30
12	Jagadish. c	S2010031	26	46
13	Kavyashree M	S2010033	27	34
14	Kusuma M	S2010034	27	44
15	Navyashree B	S2010035	27	38
16	Pooja	S2010036	28	38
17	Ranjitha A M	S2010037	28	40
18	Rekha Y S	S2010038	29	44
19	Roopa Y S	S2010039	29	44
20	Sheela S	S2010040	27	28
21	Suchithra S	S2010041	27	30
22	Sumera M C	S2010042	27	26
23	Kaushika MR	S2010001	28	28
24	M Muskan	S2010002	27	24
25	Geetha S	S2010008	27	32
26	Lokesh Gowda P	S2010012	27	28
27	Manjula S	S2010013	26	36
28	Rajeev H. k	S2010014	26	40
29	Shanmila J	S2010015	27	36
30	Sushmitha S	S2010016	27	42



APS College of Arts and Science, N. R. Colony, Bengaluru – 560 019.

Department of Physics

Date: 25/02/2023

Certificate course Report

A certificate course is a short-term educational program that focuses on specific skills or knowledge in a particular field. A renewable energy resource has emerged as a crucial solution to address the pressing environmental challenges associated with traditional energy sources. Department of Physics had conducted 30 hrs certificate course for B.Sc students.

Objective: -

- To create awareness among students related to environmental challenges and importance of renewable energy resources through certificate course.
- To enhance job opportunities in the respective field.



The certificate course on Renewable energy resources was conducted by the Department of Physics and was inaugurated by the Principal Dr. B. Jayashree on 4th August 2022 by delivering an introductory note on the importance of Renewable energy in present scenario, the increasing demand, Government initiatives, policy support, technologies used to implement the renewable energy resources.

The regular classes on Renewable energy resources was started from 5th August 2022 and completed on 17.2.2023. Dr. B. Jayashree, an expert in the field of solar cells installation and radiation and Dr. Narsimha Parvatikar, HOD of Physics handled all the classes on every Friday for 2 hrs. The emphasis was given to know more on clean and green energy production such as solar energy, hydropower and wind power. Students were exposed to have practical experience in the working of solar cells. Students have shown a great interest in the topic with positive feedbacks. This course helped them to realize the importance of renewable energy and gave necessary skill to adopt to the available solar energy resources to become independent solar power producer in near future.



Outcome of the certificate course: -

- ❖ An awareness was created among the students regarding the renewable energy resources.
- ❖ Development of necessary skill to utilize and produce the solar energy sources.
- ❖ Students developed an interest in the subject.

A total of 30 students were enrolled for the certificate course on Renewable energy resources. An objective type final round examination was conducted on 21/02/2023. Certificates were distributed to all the students upon successfully completing the course.

Principal
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N.R. Colony, Bangalore-560 019.



APS EDUCATIONAL TRUST (R)
(Estd 1935)

APS COLLEGE OF ARTS & SCIENCE

N.R COLONY, BENGALURU - 560 019



CERTIFICATE

The College records with pleasure that.....**Dhanalakshmi D.B**.....

of **V Sem. B.Sc**..... has successfully completed a certificate course of**30 hrs**.....

in **"Renewable Energy Resources"**..... with grade conducted by the

department of**Physics**..... during the year **2022-2023**

Date:.....

Programme Co-Ordinator

Principal

N. Dhanashree

Santhosh

Grades: O=Outstanding(80-100)

A: Excellent(70-79)

B: Good(55-69)

C: Average (40-54)

1 Credit - 30hours of instruction.

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APS EDUCATIONAL TRUST (R)

(Estd 1935)

APS COLLEGE OF ARTS & SCIENCE

N.R COLONY, BENGALURU - 560 019



CERTIFICATE

The College records with pleasure that.....**Jagdishh: C**.....

of **V Sem BSc**.....has successfully completed a certificate course of **30 hrs**.....

in **"Renewable Energy Resources"** with grade conducted by the

department of **Physics**..... during the year **2022 - 2023**

Date:.....

NP Parthasar
Programme Co-Ordinator

Bark
Principal

Grades: O=Outstanding(80-100)

A: Excellent(70-79)

B: Good(55-69)

C: Average (40-54)

1 Credit - 30hours of instruction.

APS College of Arts & Science
N.R. Colony, Bangalore-560 019



APS EDUCATIONAL TRUST (R)

(Estd 1935)

APS COLLEGE OF ARTS & SCIENCE

N.R COLONY, BENGALURU - 560 019



CERTIFICATE

The College records with pleasure that.....*Suhmitha S*.....
of *IV Sem B.Sc*.....has successfully completed a certificate course of*30 hrs*.....
in *"Renewable Energy Resources"*..... with grade conducted by the
department of *Physics*..... during the year...*2022-2023*

Date:.....

NP Dandekar
Programme Co-Ordinator

Beek
Principal

Grades: O=Outstanding(80-100)

A: Excellent(70-79)

B: Good(55-69)

C: Average (40-54)

1 Credit - 30hours of instruction.

APS College of Arts & Science
N.R. Colony, Bangalore-560 019

Department of Physics

Certificate Course in Renewable Energy Resources

Start date : 04/08/2022

Course coordinator : Dr. Narimha Parvatikan

Course duration : 30 hours .

Renewable Energy Resources

— Circulars and Time table —

+

Syllabus Copy for Renewable
Energy resources



Acharya Pathasala College of Arts & Science
Narasimharaja Colony, Bangalore –560 019.

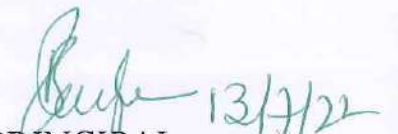
Website: apscollegeofartsandscience.com Email: apscollegeofartsscience@gmail.com

No. APSAS / 199 / 2022-2023

Dated: 13 -07-2022

CIRCULAR

All the Heads of the Department are hereby informed that Life Skill/add on courses will be conducted for the academic year 2021-22. Courses in Kannada, Physics, Mathematics, Chemistry, Psychology, Humanities and Computer Science are scheduled to be conducted from first week of August 2022 for 4th Semester B.A, B.Sc and B.C.A students. Each of the courses will be conducted for 30 hrs duration. HODs are required to submit the Syllabus and time table before 20th July 2022 as it has to be approved in GC meeting.


PRINCIPAL

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Acharya Pathasala College of Arts & Science
Narasimharaja Colony, Bangalore –560 019.

Website: apscollegeofartsandscience.com Email: apscollegeofartsscience@gmail.com

Dr.B.Jayashree M.Sc., M.Phil., Ph.D.
I/C Principal

No. APSAS / 237A / 2022-2023

Dated: 29 -07-2022

CIRCULAR

Students of IV Semester BA, B.Sc and BCA are hereby informed that Value added/Certificate courses will be conducted for free of cost during August 2022 for 30 hours as per the notified time table. This will enhance your skills and increase your employability. Certificate will be issued after the successful completion of the course.

Interested IV Semester BA, B.Sc and BCA students are hereby informed to register your name with respective course coordinators.

1. Mrs. Sathyashree – Department of Computer Science
2. Dr. Narasimha Parvathikar - Department of Physics
3. Mrs. Sona Bai – Department of Chemistry
4. Mrs. Harshitha.S – Department of Psychology

Dr. B. Jayashree 29/7/22
Principal

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Acharya Pathasala College of Arts & Science
Narasimharaja Colony, Bangalore -560 019.

Website: apscollegeofartsandscience.com Email: apscollegeofartsscience@gmail.com

Dr.B.Jayashree M.Sc., M.Phil., Ph.D.
I/C Principal

Dated: 29 -07-2022

**Time Table for Add on/Certificate Course for the Academic year 2021-22 for
2nd year B.A, B.SC and BCA**

DEPARTMENT	DAY	TIME	STUDENTS
COMPUTER SCIENCE	Monday	2:30 – 4:30 pm	IV Sem BCA & Interested Students from B.Sc & BA
PHYSICS	Friday	3:30 – 5:30 pm	IV Sem PCM & BCA
CHEMISTRY	Saturday	1:30 – 3:30 pm	IV Sem PCM & CBZ
PSYCHOLOGY	Wednesday	3:30 – 5:30 pm	IV Sem BA & BSC

Dr. Jayashree
Principal

PRINCIPAL
APS College of Arts & Science
N.R. Colony, Bangalore-560 019



RENEWABLE ENERGY RESOURCES SYLLABUS (30 HOURS)

ENERGY SOURCES

(8 Hours)

Introduction, Definition of Energy, The Role of energy in Development. Conventional and Non Conventional Energy Sources Differences, Advantages, Disadvantages and Limitations. Conventional energy sources: Hydro Electric, Thermal, Nuclear. Non-Conventional Energy sources: Bio-mass, geo-thermal, solar, wind energy, ocean energy, wave energy. Commercial energy sources, fossil-fuels coal, oil, natural gas, hydro electric power, nuclear, Non-commercial energy sources, wood, animal wastes, agricultural waste, cost of raw materials, transport problems, issues.

Fundamentals on solar radiation

(2 Hours)

Structure of the sun and sun-earth relationship, Extra-terrestrial and terrestrial solar radiation, solar angles (declination angles, zenith angle, azimuth angle, angle of incident, slope, air mass, etc.), Equation of time and solar time. Solar radiation components (diffuse horizontal irradiance (DHI), global horizontal irradiance (GHI), direct normal irradiance (DNI), global tilt irradiance (GTI)), solar radiation measuring instruments(pyranometer, pyrliometer, UV radiometers, albedo meter, etc.) and working principle. Various factors involving in attenuation of solar radiation.

PRINCIPLES OF PHOTOVOLTAIC SYSTEMS

(6 Hours)

Photoelectric effect, solar cell operation(structure, sort circuit current, open circuit voltage, fill factor, efficiency, IV curve , etc.), semiconductor materials, different generation of solar cells (first, second and third), position of the sun in the sky over the day, shadowing effects, Advantages & disadvantages of photo-voltaic conversion, solar cell, module design and connections, solar panels array design based on power system,, working of blocking and bypass diodes in solar pv panels, Interconnections and mismatch effects in solar modules in array.

SOLAR CELLS

(4 Hours)

Solar Cell Technologies Crystalline Cells: Mono- crystalline and poly – crystalline cells, Metallurgical Grade Si, Electronic Grade Si, wafer production, Mono – crystalline Si Ingots, Poly – crystalline Si Ingots, Si – wafers, Si – sheets, Solar grade Silicon, Si usage in solar PV, Commercial Si solar cells, process flow of commercial Si cell technology, process in solar cell technologies, Sawing and surface texturing, diffusion process, thin film layers, Metal contact.

SOLAR WATER HEATER & LIGHTING SYSTEM (3 Hours)

Principals of solar thermal systems, Technology's in solar water heating systems. Description of main parts of solar lighting system: Solar Lantern, street light. Charge controller, Storage battery, Inverter, Luminars, Maintenance of solar lighting system, types and advantages of solar outdoor lighting Comparative study of Conventional lighting system & solar lighting system

SOLAR POWER PLANTS (3 Hours)

Introduction, Solar energy system site considerations, components of typical SPV system, Types of Roofs, overview of the planning stage, Selection of systems design and objective for grid connected system. check list preparation, soft and entrepreneurship skills on job training

INDIA'S RENEWABLE ENERGY SECTOR (4 hours)

Energy-related issues of national and regional importance. Job/Business opportunities in India's solar sector. Initiatives taken by the government to promote renewable energy sector. India utilised its renewable energy potential, Challenges while shifting to renewable



Renewable Energy Resources

— Question paper and Answer sheets —

38
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/2023

Examination - Certificate course on Renewable Energy Resources

Register No. : 32010019

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal ~~c) Tidal~~ d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 ~~b) 2002~~ c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy ~~d) Energy of water~~ ✓
- 6) Based on usability, Energy Resources are classified into _____
~~a) primary, secondary and tertiary resources~~
b) primary and secondary resources ✓
c) primary, secondary, intermediate and tertiary resources
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal ~~c) Hydrogen Energy~~ d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
~~a) conventional energy sources~~
b) non-conventional energy sources ✓
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✗
c) It is a renewable and non-conventional source of energy
~~d) It is a non-renewable source of energy~~
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane ~~c) Uranium~~ d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
~~a) Commercial resources~~ c) Non-Commercial Resources
b) Renewable Resources d) Nuclear Energy ✓

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) ~~Conventional Sources~~ c) Non-Conventional Sources
 b) Non-renewable sources d) Primary Sources X
- 13) Which of the following is a renewable resource?
 a) ~~Solar energy~~ b) coal c) mineral d) natural gas ✓
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin ~~d) dimensionless~~ ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 a) ~~India~~ b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
 a) ~~Oxides of Carbon, Nitrogen, and Sulphur~~
 b) Oxides of Carbon, Uranium, and Radium
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases ✓
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) ~~The disposed radioactive waste is to be guarded for a long period~~ X
 c) It has low radioactivity quotient
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ ~~c) NO₂, NO₃, and N₂O₅~~ X
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
 a) ~~U-235~~ b) U-234 c) U-215 d) U-218 ✓
- 20) _____ is power house of satellite
 a) ~~Sun~~ b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
 a) Between 6-8 ~~b) Between 3-4~~ c) 7 d) Between 11-14 ✓
- 22) What does ozone protect the earth from?
 a) Sound waves ~~e) Harmful UV radiation~~
 b) Visible radiation d) Greenhouse effect ✓
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol c) Petroleum ~~d) Coal~~ X
- 24) Which part of a house receives majority of solar radiation?
 a) ~~Roof~~ b) Side walls c) Floor d) Doors ✓
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water ~~b) Sun~~ c) Man d) Food ✓

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 52010020

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal ~~b) Geothermal~~ c) Tidal d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 ~~c) 1963~~ d) 1956 ✗
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy ~~d) Energy of water~~ ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
~~b) primary and secondary resources~~ ✗
c) primary, secondary, intermediate and tertiary resources
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil ~~b) Coal~~ c) Hydrogen Energy d) Sunlight ✗
- 8) Energy Resources which are being used for many decades are known as _____
~~a) conventional energy sources~~
b) non-conventional energy sources ✓
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✓
~~c) It is a renewable and non-conventional source of energy~~
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane ~~c) Uranium~~ d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
~~a) Commercial resources~~ c) Non-Commercial Resources ✓
b) Renewable Resources d) Nuclear Energy ✓

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

42
50

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 52010021

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
~~a) Coal~~ b) Geothermal c) Tidal d) Solar ✓
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 ~~b) 2002~~ c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy ~~d) Energy of water~~ ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
~~b) primary and secondary resources~~ ✓
c) primary, secondary, intermediate and tertiary resources
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal ~~c) Hydrogen Energy~~ d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
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c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
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b) It is a non-renewable and non-conventional source of energy
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d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane ~~c) Uranium~~ d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
~~a) Commercial resources~~ c) Non-Commercial Resources ✓
b) Renewable Resources d) Nuclear Energy

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources c) Non-Conventional Sources
~~b) Non-renewable sources~~ d) Primary Sources ✗
- 13) Which of the following is a renewable resource?
~~a) Solar energy~~ b) coal c) mineral d) natural gas ✓
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin ~~d) dimensionless~~ ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
~~a) India~~ b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
~~a) Oxides of Carbon, Nitrogen, and Sulphur~~
 b) Oxides of Carbon, Uranium, and Radium ✓
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
~~b) The disposed radioactive waste is to be guarded for a long period~~ ✗
 c) It has low radioactivity quotient
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ ~~c) NO₂, NO₃, and N₂O₅~~ ✗
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
~~a) U-235~~ b) U-234 c) U-215 d) U-218 ✓
- 20) _____ is power house of satellite
~~a) Sun~~ b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
 a) Between 6-8 ~~b) Between 3-4~~ c) 7 d) Between 11-14 ✓
- 22) What does ozone protect the earth from?
 a) Sound waves ~~c) Harmful UV radiation~~
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- 23) Which of the following is the cleanest fossil fuel?
~~a) Natural gas~~ b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
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- 25) Which of the following provides energy for winds to blow naturally?
 a) Water ~~b) Sun~~ c) Man d) Food ✓

34
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S2010022

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal c) Tidal ~~d) Solar~~ ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 ~~c) 1963~~ d) 1956 ✗
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
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a) Coal b) Methane ~~c) Uranium~~ d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
~~a) Commercial resources~~ c) Non-Commercial Resources
b) Renewable Resources d) Nuclear Energy ✓

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

32
50

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : ~~S2010023~~ S2010023

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
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- 14) The unit of energy yield ratio is _____
 a) joule ~~b) watt~~ c) joule/Kelvin d) dimensionless ✗
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 a) India b) Bangladesh ~~c) USA~~ d) China ✗
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
~~a) Oxides of Carbon, Nitrogen, and Sulphur~~
 b) Oxides of Carbon, Uranium, and Radium ✓
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
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 b) The disposed radioactive waste is to be guarded for a long period ✗
 c) It has low radioactivity quotient
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ c) NO₂, NO₃, and N₂O₅ ✗
~~b) N₂O₅ and N₂O₃~~ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
~~a) U-235~~ b) U-234 c) U-215 d) U-218 ✓
- 20) _____ is power house of satellite
~~a) Sun~~ b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 ~~c) 7~~ d) Between 11-14 ✗
- 22) What does ozone protect the earth from?
~~a) Sound waves~~ c) Harmful UV radiation
 b) Visible radiation d) Greenhouse effect ✗
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol ~~c) Petroleum~~ d) Coal ✗
- 24) Which part of a house receives majority of solar radiation?
~~a) Roof~~ b) Side walls c) Floor d) Doors ✓
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water ~~b) Sun~~ c) Man d) Food ✓

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S 2010024

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
 a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
 a) Wind b) Sunlight c) Oceanic tides d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
 a) Coal b) Geothermal c) Tidal d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
 a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
 a) Chemical energy c) Nuclear energy
 b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
 a) primary, secondary and tertiary resources
 b) primary and secondary resources
 c) primary, secondary, intermediate and tertiary resources ✗
 d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
 a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
 a) conventional energy sources
 b) non-conventional energy sources ✗
 c) primary energy sources
 d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
 a) It is a renewable and conventional source of energy
 b) It is a non-renewable and non-conventional source of energy ✗
 c) It is a renewable and non-conventional source of energy
 d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
 a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
 a) Commercial resources c) Non-Commercial Resources ✓
 b) Renewable Resources d) Nuclear Energy ✓

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources c) Non-Conventional Sources
 b) Non-renewable sources ~~d) Primary Sources~~ X
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal ~~c) mineral~~ d) natural gas X
- 14) The unit of energy yield ratio is _____
 a) joule ~~b) watt~~ c) joule/Kelvin ~~d) dimensionless~~ ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 a) India b) Bangladesh ~~c) USA~~ d) China X
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
~~a) Oxides of Carbon, Nitrogen, and Sulphur~~ ✓
 b) Oxides of Carbon, Uranium, and Radium
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) The disposed radioactive waste is to be guarded for a long period ✓
~~c) It has low radioactivity quotient~~
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
~~a) NO and NO₂~~ ✓ c) NO₂, NO₃, and N₂O₅
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
 a) U-235 b) U-234 ~~c) U-215~~ d) U-218 X
- 20) _____ is power house of satellite
~~a) Sun~~ ✓ b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 c) 7 ~~d) Between 11-14~~ X
- 22) What does ozone protect the earth from?
 a) Sound waves ~~c) Harmful UV radiation~~ ✓
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
~~a) Natural gas~~ ✓ b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
~~a) Roof~~ ✓ b) Side walls c) Floor d) Doors ✓
- 25) Which of the following provides energy for winds to blow naturally?
~~a) Water~~ X b) Sun c) Man d) Food X

30
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APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 52010025

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal c) Tidal d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
 a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✗
- 6) Based on usability, Energy Resources are classified into _____
 a) primary, secondary and tertiary resources
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources ✗
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
 a) conventional energy sources
b) non-conventional energy sources ✓
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
 a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✗
c) It is a renewable and non-conventional source of energy
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
a) Commercial resources c) Non-Commercial Resources
 b) Renewable Resources d) Nuclear Energy ✗

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources Non-Conventional Sources ✓
 b) Non-renewable sources d) Primary Sources
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral d) natural gas ✓
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin dimensionless ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
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- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
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 b) Oxides of Carbon, Uranium, and Radium
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
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 b) The disposed radioactive waste is to be guarded for a long period
 It has low radioactivity quotient ✓
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ NO₂, NO₃, and N₂O₅ X
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
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 a) U-235 b) U-234 c) U-215 U-218 X
- 20) _____ is power house of satellite
 Sun b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 c) 7 Between 11-14 X
- 22) What does ozone protect the earth from?
 a) Sound waves Harmful UV radiation ✓
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
 Natural gas b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
 a) Roof b) Side walls Floor d) Doors X
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water Sun c) Man d) Food ✓

32
50

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N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No.: S2010026

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal ~~c) Tidal~~ d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 ~~b) 2002~~ c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
~~b) Potential energy~~ d) Energy of water ✗
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources ✓
~~d) primary, intermediate and secondary resources~~
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal ~~c) Hydrogen Energy~~ d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
a) conventional energy sources
b) non-conventional energy sources
~~c) primary energy sources~~ ✗
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
~~b) It is a non-renewable and non-conventional source of energy~~ ✗
c) It is a renewable and non-conventional source of energy
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane ~~c) Uranium~~ d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
a) Commercial resources c) Non-Commercial Resources
~~b) Renewable Resources~~ d) Nuclear Energy ✗

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources ~~c) Non-Conventional Sources~~ ✓
 b) Non-renewable sources d) Primary Sources
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal ~~e) mineral~~ d) natural gas ✗
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin ~~d) dimensionless~~ ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
~~a) India~~ b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
~~a) Oxides of Carbon, Nitrogen, and Sulphur~~ ✓
 b) Oxides of Carbon, Uranium, and Radium
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) The disposed radioactive waste is to be guarded for a long period ✓
~~c) It has low radioactivity quotient~~
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ ~~e) NO₂, NO₃, and N₂O₅~~ ✗
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
~~a) U-235~~ b) U-234 c) U-215 d) U-218 ✓
- 20) _____ is power house of satellite
 a) Sun b) moon ~~c) batteries~~ d) fuel ✗
- 21) What is the pH level of acid rain?
 a) Between 6-8 ~~b) Between 3-4~~ c) 7 d) Between 11-14 ✓
- 22) What does ozone protect the earth from?
 a) Sound waves ~~e) Harmful UV radiation~~ ✓
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
~~a) Natural gas~~ b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
 a) Roof b) Side walls c) Floor ~~d) Doors~~ ✗
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water ~~b) Sun~~ c) Man d) Food ✓

28
50

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Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S2010027

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal ~~b) Geothermal~~ c) Tidal d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 ~~b) 2002~~ c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
~~a) Chemical energy~~ c) Nuclear energy
b) Potential energy d) Energy of water ✗
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
~~b) primary and secondary resources~~
c) primary, secondary, intermediate and tertiary resources ✗
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal ~~c) Hydrogen Energy~~ d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
a) conventional energy sources
b) non-conventional energy sources
~~c) primary energy sources~~ ✗
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
~~a) It is a renewable and conventional source of energy~~
b) It is a non-renewable and non-conventional source of energy ✗
c) It is a renewable and non-conventional source of energy
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal ~~b) Methane~~ c) Uranium d) Biogas ✗
- 11) Which of these is the major contributor to world pollution?
~~a) Commercial resources~~ c) Non-Commercial Resources
b) Renewable Resources d) Nuclear Energy ✓

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
- a) Conventional Sources c) Non-Conventional Sources
b) Non-renewable sources ~~d) Primary Sources~~ X
- 13) Which of the following is a renewable resource?
- a) Solar energy ~~b) coal~~ c) mineral d) natural gas X
- 14) The unit of energy yield ratio is _____
- a) joule b) watt c) joule/Kelvin ~~d) dimensionless~~ ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
- ~~a) India~~ b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
- ~~a) Oxides of Carbon, Nitrogen, and Sulphur~~ ✓
b) Oxides of Carbon, Uranium, and Radium
c) Calcium Halides and Oxides of Nitrogen
d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
- a) It has radioactivity quotient of dangerous levels.
b) The disposed radioactive waste is to be guarded for a long period
~~c) It has low radioactivity quotient~~ ✓
d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
- ~~a) NO and NO₂~~ c) NO₂, NO₃, and N₂O₅ ✓
b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
- a) U-235 b) U-234 ~~c) U-215~~ d) U-218 X
- 20) _____ is power house of satellite
- ~~a) Sun~~ b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
- a) Between 6-8 ~~b) Between 3-4~~ c) 7 d) Between 11-14 ✓
- 22) What does ozone protect the earth from?
- a) Sound waves ~~c) Harmful UV radiation~~
b) Visible radiation d) Greenhouse effect ✓
- 23) Which of the following is the cleanest fossil fuel?
- ~~a) Natural gas~~ b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
- a) Roof b) Side walls ~~c) Floor~~ d) Doors X
- 25) Which of the following provides energy for winds to blow naturally?
- ~~a) Water~~ b) Sun c) Man d) Food X

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S2010028

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal c) Tidal d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources
 c) primary, secondary, intermediate and tertiary resources ✗
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
a) conventional energy sources
b) non-conventional energy sources
 c) primary energy sources ✗
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✗
c) It is a renewable and non-conventional source of energy ✗
 d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✗
- 11) Which of these is the major contributor to world pollution?
a) Commercial resources c) Non-Commercial Resources
b) Renewable Resources d) Nuclear Energy ✗

30
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- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources c) Non-Conventional Sources
 b) Non-renewable sources d) Primary Sources
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral d) natural gas
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin d) dimensionless
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 a) India b) Bangladesh c) USA d) China
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
 a) Oxides of Carbon, Nitrogen, and Sulphur
 b) Oxides of Carbon, Uranium, and Radium
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) The disposed radioactive waste is to be guarded for a long period
 c) It has low radioactivity quotient
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ c) NO₂, NO₃, and N₂O₅
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
 a) U-235 b) U-234 c) U-215 d) U-218
- 20) _____ is power house of satellite
 a) Sun b) moon c) batteries d) fuel
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 c) 7 d) Between 11-14
- 22) What does ozone protect the earth from?
 a) Sound waves c) Harmful UV radiation
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol c) Petroleum d) Coal
- 24) Which part of a house receives majority of solar radiation?
 a) Roof b) Side walls c) Floor d) Doors
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water b) Sun c) Man d) Food

30
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 52010029

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal ~~c) Tidal~~ d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 ~~b) 2002~~ c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
~~a) Chemical energy~~ c) Nuclear energy
b) Potential energy d) Energy of water ✗
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources ✓
~~d) primary, intermediate and secondary resources~~
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal ~~c) Hydrogen Energy~~ d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
a) conventional energy sources
b) non-conventional energy sources
c) primary energy sources ✗
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy
c) It is a renewable and non-conventional source of energy ✗
~~d) It is a non-renewable source of energy~~
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane ~~c) Uranium~~ d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
~~a) Commercial resources~~ c) Non-Commercial Resources ✓
b) Renewable Resources d) Nuclear Energy

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources e) Non-Conventional Sources ✓
 b) Non-renewable sources d) Primary Sources
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral d) natural gas ✗
- 14) The unit of energy yield ratio is _____
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 a) U-235 b) U-234 c) U-215 d) U-218 ✗
- 20) _____ is power house of satellite
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- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 c) 7 d) Between 11-14 ✗
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 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
 a) Roof b) Side walls c) Floor d) Doors ✗
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water b) Sun c) Man d) Food ✗

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 2201031

46 / 50

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
 a) Coal b) Geothermal c) Tidal d) Solar ✓
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources ✓
 d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
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b) non-conventional energy sources ✓
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✓
 c) It is a renewable and non-conventional source of energy
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
 a) Commercial resources c) Non-Commercial Resources ✓
b) Renewable Resources d) Nuclear Energy

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 b) Non-renewable sources d) Primary Sources
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral d) natural gas
- 14) The unit of energy yield ratio is ____
 a) joule b) watt c) joule/Kelvin d) dimensionless
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is ____
 a) India b) Bangladesh c) USA d) China
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
 a) Oxides of Carbon, Nitrogen, and Sulphur
 b) Oxides of Carbon, Uranium, and Radium
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) The disposed radioactive waste is to be guarded for a long period
 c) It has low radioactivity quotient
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ c) NO₂, NO₃, and N₂O₅
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
 a) U-235 b) U-234 c) U-215 d) U-218
- 20) _____ is power house of satellite
 a) Sun b) moon c) batteries d) fuel
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 c) 7 d) Between 11-14
- 22) What does ozone protect the earth from?
 a) Sound waves c) Harmful UV radiation
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol c) Petroleum d) Coal
- 24) Which part of a house receives majority of solar radiation?
 a) Roof b) Side walls c) Floor d) Doors
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water b) Sun c) Man d) Food

34
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 5201033

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
 a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
 a) Wind b) Sunlight c) Oceanic tides d) Biomass ✗
- 3) Which one of the following is not a non-conventional energy sources?
 a) Coal b) Geothermal c) Tidal d) Solar ✓
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
 a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
 a) Chemical energy c) Nuclear energy
 b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
 a) primary, secondary and tertiary resources
 b) primary and secondary resources ✓
 c) primary, secondary, intermediate and tertiary resources
 d) primary, intermediate and secondary resources ✓
- 7) Which of the following is not a type of primary resource?
 a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
 a) conventional energy sources
 b) non-conventional energy sources ✗
 c) primary energy sources
 d) fuel cells ✓
- 9) Which of the statements is correct about Solar Energy?
 a) It is a renewable and conventional source of energy
 b) It is a non-renewable and non-conventional source of energy
 c) It is a renewable and non-conventional source of energy ✓
 d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
 a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
 a) Commercial resources c) Non-Commercial Resources ✓
 b) Renewable Resources d) Nuclear Energy ✓

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
- a) Conventional Sources c) Non-Conventional Sources
b) Non-renewable sources d) Primary Sources X
- 13) Which of the following is a renewable resource?
- a) Solar energy **b) coal** c) mineral d) natural gas X
- 14) The unit of energy yield ratio is _____
- a) joule b) watt c) joule/Kelvin **d) dimensionless** ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
- a) India** b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
- a) Oxides of Carbon, Nitrogen, and Sulphur
b) Oxides of Carbon, Uranium, and Radium X
c) Calcium Halides and Oxides of Nitrogen
d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
- a) It has radioactivity quotient of dangerous levels.
b) The disposed radioactive waste is to be guarded for a long period ✓
c) It has low radioactivity quotient
d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
- a) NO and NO₂ **c) NO₂, NO₃, and N₂O₅** X
b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
- a) U-235 **b) U-234** c) U-215 d) U-218 X
- 20) _____ is power house of satellite
- a) Sun** b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
- a) Between 6-8 **b) Between 3-4** c) 7 d) Between 11-14 ✓
- 22) What does ozone protect the earth from?
- a) Sound waves **c) Harmful UV radiation** ✓
b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
- a) Natural gas **b) Petrol** c) Petroleum d) Coal X
- 24) Which part of a house receives majority of solar radiation?
- a) Roof** b) Side walls c) Floor d) Doors ✓
- 25) Which of the following provides energy for winds to blow naturally?
- a) Water **b) Sun** c) Man d) Food ✓

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 5201034

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
 a) Coal b) Geothermal c) Tidal d) Solar ✓
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources ✓
c) primary, secondary, intermediate and tertiary resources
 d) primary, intermediate and secondary resources ✓
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
 a) conventional energy sources ✓
b) non-conventional energy sources
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✓
 c) It is a renewable and non-conventional source of energy ✓
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
 a) Commercial resources ✓
b) Renewable Resources c) Non-Commercial Resources
d) Nuclear Energy ✓

44
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S201035

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
 a) Coal b) Geothermal c) Tidal d) Solar ✓
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources ✓
 d) primary, intermediate and secondary resources ✓
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✗
- 8) Energy Resources which are being used for many decades are known as _____
 a) conventional energy sources ✓
b) non-conventional energy sources
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✓
 c) It is a renewable and non-conventional source of energy ✓
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
 a) Commercial resources ✓
b) Renewable Resources c) Non-Commercial Resources ✓
d) Nuclear Energy

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources c) Non-Conventional Sources
 b) Non-renewable sources d) Primary Sources X
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral d) natural gas X
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin d) dimensionless ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 a) India b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
 a) Oxides of Carbon, Nitrogen, and Sulphur
 b) Oxides of Carbon, Uranium, and Radium
 c) Calcium Halides and Oxides of Nitrogen X
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) The disposed radioactive waste is to be guarded for a long period
 c) It has low radioactivity quotient ✓
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ c) NO₂, NO₃, and N₂O₅ X
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
 a) U-235 b) U-234 c) U-215 d) U-218 ✓
- 20) _____ is power house of satellite
 a) Sun b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 c) 7 d) Between 11-14 ✓
- 22) What does ozone protect the earth from?
 a) Sound waves c) Harmful UV radiation
 b) Visible radiation d) Greenhouse effect ✓
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol c) Petroleum d) Coal X
- 24) Which part of a house receives majority of solar radiation?
 a) Roof b) Side walls c) Floor d) Doors ✓
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water b) Sun c) Man d) Food ✓

38
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S201036

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass X
- 3) Which one of the following is not a non-conventional energy sources?
 a) Coal b) Geothermal c) Tidal d) Solar ✓
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources ✓
 d) primary, intermediate and secondary resources ✓
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
 a) conventional energy sources ✓
b) non-conventional energy sources
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✓
 c) It is a renewable and non-conventional source of energy ✓
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
 a) Commercial resources ✓
b) Renewable Resources c) Non-Commercial Resources
d) Nuclear Energy ✓

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources ✓ e) Non-Conventional Sources ✓
 b) Non-renewable sources d) Primary Sources
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral ✓ d) natural gas ✗
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin ✓ d) dimensionless ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 ✓ a) India b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
 a) Oxides of Carbon, Nitrogen, and Sulphur
 b) Oxides of Carbon, Uranium, and Radium
 ✓ c) Calcium Halides and Oxides of Nitrogen ✗
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 ✓ b) The disposed radioactive waste is to be guarded for a long period ✗
 c) It has low radioactivity quotient
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ ✓ c) NO₂, NO₃, and N₂O₅ ✗
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
 ✓ a) U-235 b) U-234 c) U-215 d) U-218 ✓
- 20) _____ is power house of satellite
 ✓ a) Sun b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
 a) Between 6-8 ✓ b) Between 3-4 c) 7 d) Between 11-14 ✓
- 22) What does ozone protect the earth from?
 a) Sound waves ✓ c) Harmful UV radiation ✓
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol c) Petroleum ✓ d) Coal ✗
- 24) Which part of a house receives majority of solar radiation?
 ✓ a) Roof b) Side walls c) Floor d) Doors ✓
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water ✓ b) Sun c) Man d) Food ✓

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 52010037

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass ✗
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal c) Tidal d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources
 d) primary, intermediate and secondary resources ✓
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
 a) conventional energy sources ✓
b) non-conventional energy sources
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✓
 c) It is a renewable and non-conventional source of energy ✓
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
 a) Commercial resources ✓
b) Renewable Resources c) Non-Commercial Resources
d) Nuclear Energy ✓

40/50

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources c) Non-Conventional Sources ✓
 b) Non-renewable sources d) Primary Sources ✓
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral d) natural gas ✗
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin d) dimensionless ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 a) India ✓ b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
 a) Oxides of Carbon, Nitrogen, and Sulphur
 b) Oxides of Carbon, Uranium, and Radium ✗
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) The disposed radioactive waste is to be guarded for a long period ✓
 c) It has low radioactivity quotient ✓
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ c) NO₂, NO₃, and N₂O₅ ✗
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅ ✓
- 19) Which Uranium isotope is used in nuclear power plants?
 a) U-235 ✓ b) U-234 c) U-215 d) U-218 ✓
- 20) _____ is power house of satellite
 a) Sun ✓ b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 ✓ c) 7 d) Between 11-14 ✓
- 22) What does ozone protect the earth from?
 a) Sound waves c) Harmful UV radiation ✓
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas ✓ b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
 a) Roof ✓ b) Side walls c) Floor d) Doors ✓
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water b) Sun ✓ c) Man d) Food ✓

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 52010038

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
 a) Coal b) Geothermal c) Tidal d) Solar ✓
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources ✓
 d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
 a) conventional energy sources ✓
b) non-conventional energy sources
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy
 c) It is a renewable and non-conventional source of energy ✓
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
 a) Commercial resources c) Non-Commercial Resources ✓
b) Renewable Resources d) Nuclear Energy

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
- a) Conventional Sources c) Non-Conventional Sources ✓
 b) Non-renewable sources d) Primary Sources ✓
- 13) Which of the following is a renewable resource?
- a) Solar energy b) coal c) mineral d) natural gas ✓
- 14) The unit of energy yield ratio is _____
- a) joule b) watt c) joule/Kelvin d) dimensionless ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
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- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
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- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
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 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅ ✗
- 19) Which Uranium isotope is used in nuclear power plants?
- a) U-235 b) U-234 c) U-215 d) U-218 ✗
- 20) _____ is power house of satellite
- a) Sun b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
- a) Between 6-8 b) Between 3-4 c) 7 d) Between 11-14 ✓
- 22) What does ozone protect the earth from?
- a) Sound waves c) Harmful UV radiation ✓
 b) Visible radiation d) Greenhouse effect ✓
- 23) Which of the following is the cleanest fossil fuel?
- a) Natural gas b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
- a) Roof b) Side walls c) Floor d) Doors ✓
- 25) Which of the following provides energy for winds to blow naturally?
- a) Water b) Sun c) Man d) Food ✓

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 52010039

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal c) Tidal d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources ✓
 d) primary, intermediate and secondary resources ✓
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
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b) non-conventional energy sources
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
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b) It is a non-renewable and non-conventional source of energy
 c) It is a renewable and non-conventional source of energy ✓
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
 a) Commercial resources ✓
b) Renewable Resources c) Non-Commercial Resources
d) Nuclear Energy ✓

44
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- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources c) Non-Conventional Sources ✓
 b) Non-renewable sources d) Primary Sources
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral d) natural gas ✓
- 14) The unit of energy yield ratio is _____
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- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
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 b) Oxides of Carbon, Uranium, and Radium ✗
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 d) Noble Gases
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 b) The disposed radioactive waste is to be guarded for a long period ✓
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- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ c) NO₂, NO₃, and N₂O₅ ✗
 b) N₂O₅ and N₂O₃ ~~d) NO₃ and N₂O₅~~
- 19) Which Uranium isotope is used in nuclear power plants?
 a) U-235 b) U-234 c) U-215 d) U-218 ✓
- 20) _____ is power house of satellite
 a) Sun b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 c) 7 d) Between 11-14 ✓
- 22) What does ozone protect the earth from?
 a) Sound waves c) Harmful UV radiation ✓
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
 a) Roof b) Side walls c) Floor d) Doors ✓
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water b) Sun c) Man d) Food ✓

28
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S2010040

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal ~~c) Tidal~~ d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 ~~b) 2002~~ c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
~~a) Chemical energy~~ c) Nuclear energy
b) Potential energy d) Energy of water ✗
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources
~~d) primary, intermediate and secondary resources~~ ✓
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal ~~c) Hydrogen Energy~~ d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
a) conventional energy sources
b) non-conventional energy sources
c) primary energy sources
~~d) fuel cells~~ ✗
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✗
c) It is a renewable and non-conventional source of energy
~~d) It is a non-renewable source of energy~~
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane ~~c) Uranium~~ d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
~~a) Commercial resources~~ c) Non-Commercial Resources ✓
b) Renewable Resources d) Nuclear Energy

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources ~~c) Non-Conventional Sources~~
 b) Non-renewable sources d) Primary Sources
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal ~~c) mineral~~ d) natural gas
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin ~~d) dimensionless~~
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 a) India b) Bangladesh c) USA ~~d) China~~
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
~~a) Oxides of Carbon, Nitrogen, and Sulphur~~
 b) Oxides of Carbon, Uranium, and Radium
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) The disposed radioactive waste is to be guarded for a long period
~~c) It has low radioactivity quotient~~
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ c) NO₂, NO₃, and N₂O₅
~~b) N₂O₅ and N₂O₃~~ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
 a) U-235 ~~b) U-234~~ c) U-215 d) U-218
- 20) _____ is power house of satellite
~~a) Sun~~ b) moon c) batteries d) fuel
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 ~~c) 7~~ d) Between 11-14
- 22) What does ozone protect the earth from?
 a) Sound waves ~~c) Harmful UV radiation~~
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
~~a) Natural gas~~ b) Petrol c) Petroleum d) Coal
- 24) Which part of a house receives majority of solar radiation?
 a) Roof ~~b) Side walls~~ c) Floor d) Doors
- 25) Which of the following provides energy for winds to blow naturally?
~~a) Water~~ b) Sun c) Man d) Food

30
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S2010041

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal c) Tidal ~~d) Solar~~ X
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 ~~b) 2002~~ c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy ~~d) Energy of water~~ ✓
- 6) Based on usability, Energy Resources are classified into _____
~~a) primary, secondary and tertiary resources~~
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources X
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal ~~c) Hydrogen Energy~~ d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
~~a) conventional energy sources~~
b) non-conventional energy sources ✓
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
~~a) It is a renewable and conventional source of energy~~
b) It is a non-renewable and non-conventional source of energy X
c) It is a renewable and non-conventional source of energy
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal ~~b) Methane~~ c) Uranium d) Biogas X
- 11) Which of these is the major contributor to world pollution?
a) Commercial resources c) Non-Commercial Resources
~~b) Renewable Resources~~ d) Nuclear Energy X

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
- a) Conventional Sources c) Non-Conventional Sources ~~X~~
b) Non-renewable sources ~~d) Primary Sources~~
- 13) Which of the following is a renewable resource?
- ~~a) Solar energy~~ b) coal c) mineral d) natural gas ✓
- 14) The unit of energy yield ratio is _____
- a) joule b) watt c) joule/Kelvin ~~d) dimensionless~~ ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
- ~~a) India~~ b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
- ~~a) Oxides of Carbon, Nitrogen, and Sulphur~~ ✓
b) Oxides of Carbon, Uranium, and Radium
c) Calcium Halides and Oxides of Nitrogen
d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
- a) It has radioactivity quotient of dangerous levels.
b) The disposed radioactive waste is to be guarded for a long period ✓
~~c) It has low radioactivity quotient~~
d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
- ~~a) NO and NO₂~~ c) NO₂, NO₃, and N₂O₅ ✓
b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
- a) U-235 b) U-234 ~~c) U-215~~ d) U-218 ~~X~~
- 20) _____ is power house of satellite
- ~~a) Sun~~ b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
- a) Between 6-8 b) Between 3-4 ~~c) 7~~ d) Between 11-14 ~~X~~
- 22) What does ozone protect the earth from?
- a) Sound waves ~~c) Harmful UV radiation~~ ✓
b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
- ~~a) Natural gas~~ b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
- a) Roof ~~b) Side walls~~ c) Floor d) Doors ~~X~~
- 25) Which of the following provides energy for winds to blow naturally?
- ~~a) Water~~ b) Sun c) Man d) Food ~~X~~

26
50

APS college of Arts and Science

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Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S2010042

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
 a) Coal b) Geothermal c) Tidal d) Solar ✓
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
 a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✗
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
 b) primary and secondary resources ✗
c) primary, secondary, intermediate and tertiary resources
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
a) conventional energy sources
b) non-conventional energy sources
 c) primary energy sources ✗
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
 a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✗
c) It is a renewable and non-conventional source of energy
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
a) Commercial resources c) Non-Commercial Resources
 b) Renewable Resources d) Nuclear Energy ✗

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources c) Non-Conventional Sources
 b) Non-renewable sources d) Primary Sources ✗
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral d) natural gas ✗
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin d) dimensionless ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 a) India b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
 a) Oxides of Carbon, Nitrogen, and Sulphur ✓
 b) Oxides of Carbon, Uranium, and Radium
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) The disposed radioactive waste is to be guarded for a long period ✓
 c) It has low radioactivity quotient
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ c) NO₂, NO₃, and N₂O₅ ✗
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
 a) U-235 b) U-234 c) U-215 d) U-218 ✗
- 20) _____ is power house of satellite
 a) Sun b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 c) 7 d) Between 11-14 ✗
- 22) What does ozone protect the earth from?
 a) Sound waves c) Harmful UV radiation ✓
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
 a) Roof b) Side walls c) Floor d) Doors ✗
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water b) Sun c) Man d) Food ✗

28
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S2010001

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) ~~Solar~~ b) Geothermal c) Coal d) Tidal X
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) ~~Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) ~~Geothermal~~ c) Tidal d) Solar X
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) ~~2002~~ c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy d) ~~Energy of water~~ ✓
- 6) Based on usability, Energy Resources are classified into _____
a) ~~primary, secondary and tertiary resources~~
b) primary and secondary resources X
c) primary, secondary, intermediate and tertiary resources
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) ~~Hydrogen Energy~~ d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
a) ~~conventional energy sources~~
b) non-conventional energy sources ✓
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy
c) ~~It is a renewable and non-conventional source of energy~~ ✓
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) ~~Methane~~ c) Uranium d) Biogas X
- 11) Which of these is the major contributor to world pollution?
a) Commercial resources c) Non-Commercial Resources
b) ~~Renewable Resources~~ d) Nuclear Energy X

24
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 32010002

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal ~~b) Geothermal~~ c) Tidal d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 ~~b) 2002~~ c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
~~b) Potential energy~~ d) Energy of water ✗
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
~~b) primary and secondary resources~~ ✗
c) primary, secondary, intermediate and tertiary resources ✗
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal ~~c) Hydrogen Energy~~ d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
a) conventional energy sources
b) non-conventional energy sources ✗
~~c) primary energy sources~~
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
~~a) It is a renewable and conventional source of energy~~ ✗
b) It is a non-renewable and non-conventional source of energy ✗
c) It is a renewable and non-conventional source of energy
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal ~~b) Methane~~ c) Uranium d) Biogas ✗
- 11) Which of these is the major contributor to world pollution?
a) Commercial resources ~~c) Non-Commercial Resources~~
b) Renewable Resources d) Nuclear Energy ✗

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources c) Non-Conventional Sources
 b) Non-renewable sources d) Primary Sources X
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral d) natural gas ✓
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin d) dimensionless ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 a) India b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
 a) Oxides of Carbon, Nitrogen, and Sulphur
 b) Oxides of Carbon, Uranium, and Radium ✓
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) The disposed radioactive waste is to be guarded for a long period
 c) It has low radioactivity quotient ✓
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ c) NO₂, NO₃, and N₂O₅ ✓
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅
- 19) Which Uranium isotope is used in nuclear power plants?
 a) U-235 b) U-234 c) U-215 d) U-218 X
- 20) _____ is power house of satellite
 a) Sun b) moon c) ~~batteries~~ d) fuel X
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 c) 7 d) Between 11-14
- 22) What does ozone protect the earth from?
 a) Sound waves c) Harmful UV radiation ✓
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
 a) Roof b) ~~Side walls~~ c) Floor d) Doors X
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water b) Sun c) Man X
 d) Food

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32
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 52010008

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
 a) Coal b) Geothermal c) Tidal d) Solar ✓
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✓
- 8) Energy Resources which are being used for many decades are known as _____
 a) conventional energy sources
b) non-conventional energy sources ✓
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
 a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy X
c) It is a renewable and non-conventional source of energy
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
 a) Commercial resources
b) Renewable Resources
c) Non-Commercial Resources ✓
d) Nuclear Energy

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources c) Non-Conventional Sources ✓
 b) Non-renewable sources d) Primary Sources
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral d) natural gas ✗
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin d) dimensionless ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 a) India b) Bangladesh c) USA d) China ✗
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
 a) Oxides of Carbon, Nitrogen, and Sulphur ✓
 b) Oxides of Carbon, Uranium, and Radium
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) The disposed radioactive waste is to be guarded for a long period ✓
 c) It has low radioactivity quotient
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ c) NO₂, NO₃, and N₂O₅
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅ ✗
- 19) Which Uranium isotope is used in nuclear power plants?
 a) U-235 b) U-234 c) U-215 d) U-218 ✗
- 20) _____ is power house of satellite
 a) Sun b) moon c) batteries d) fuel ✗
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 c) 7 d) Between 11-14 ✗
- 22) What does ozone protect the earth from?
 a) Sound waves c) Harmful UV radiation ✓
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
 a) Roof b) Side walls c) Floor d) Doors ✗
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water b) Sun c) Man d) Food ✓

28
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 32010012

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal ~~b) Geothermal~~ c) Tidal d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 ~~d) 1956~~ ✗
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy ~~d) Energy of water~~ ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
~~b) primary and secondary resources~~ ✗
c) primary, secondary, intermediate and tertiary resources
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
~~a) Crude Oil~~ b) Coal c) Hydrogen Energy d) Sunlight ✗
- 8) Energy Resources which are being used for many decades are known as _____
~~a) conventional energy sources~~
b) non-conventional energy sources ✓
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
b) It is a non-renewable and non-conventional source of energy ✓
~~c) It is a renewable and non-conventional source of energy~~
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane ~~c) Uranium~~ d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
~~a) Commercial resources~~ c) Non-Commercial Resources
b) Renewable Resources d) Nuclear Energy ✓

36
50

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 82010013

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal c) Coal d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight c) Oceanic tides d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal c) Tidal d) Solar ✗
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 b) 2002 c) 1963 d) 1956 ✗
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy d) Energy of water ✓
- 6) Based on usability, Energy Resources are classified into _____
a) primary, secondary and tertiary resources
 b) primary and secondary resources
c) primary, secondary, intermediate and tertiary resources ✗
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy d) Sunlight ✗
- 8) Energy Resources which are being used for many decades are known as _____
 a) conventional energy sources
b) non-conventional energy sources ✓
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
a) It is a renewable and conventional source of energy
 b) It is a non-renewable and non-conventional source of energy ✓
 c) It is a renewable and non-conventional source of energy
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane c) Uranium d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
 a) Commercial resources c) Non-Commercial Resources
b) Renewable Resources d) Nuclear Energy ✓

- 12) Which of the energy resources were considered for large scale use after the oil crisis of 1973?
 a) Conventional Sources c) Non-Conventional Sources
 b) Non-renewable sources d) Primary Sources X
- 13) Which of the following is a renewable resource?
 a) Solar energy b) coal c) mineral d) natural gas ✓
- 14) The unit of energy yield ratio is _____
 a) joule b) watt c) joule/Kelvin d) dimensionless ✓
- 15) The only country having a full-fledged ministry for Development of New and Renewable Resources is _____
 a) India b) Bangladesh c) USA d) China ✓
- 16) Which of the following pollutants are emitted by the burning of fossil fuel?
 a) Oxides of Carbon, Nitrogen, and Sulphur ✓
 b) Oxides of Carbon, Uranium, and Radium
 c) Calcium Halides and Oxides of Nitrogen
 d) Noble Gases
- 17) Which of the following statements is not true about radioactive waste?
 a) It has radioactivity quotient of dangerous levels.
 b) The disposed radioactive waste is to be guarded for a long period ✓
 c) It has low radioactivity quotient
 d) Its radioactivity decreases with time.
- 18) Which Oxides of Nitrogen are generated by burning of fossil fuel?
 a) NO and NO₂ c) NO₂, NO₃, and N₂O₅
 b) N₂O₅ and N₂O₃ d) NO₃ and N₂O₅ X
- 19) Which Uranium isotope is used in nuclear power plants?
 a) U-235 b) U-234 c) U-215 d) U-218 ✓
- 20) _____ is power house of satellite
 a) Sun b) moon c) batteries d) fuel ✓
- 21) What is the pH level of acid rain?
 a) Between 6-8 b) Between 3-4 c) 7 d) Between 11-14 ✓
- 22) What does ozone protect the earth from?
 a) Sound waves c) Harmful UV radiation ✓
 b) Visible radiation d) Greenhouse effect
- 23) Which of the following is the cleanest fossil fuel?
 a) Natural gas b) Petrol c) Petroleum d) Coal ✓
- 24) Which part of a house receives majority of solar radiation?
 a) Roof b) Side walls c) Floor d) Doors X
- 25) Which of the following provides energy for winds to blow naturally?
 a) Water b) Sun c) Man d) Food ✓

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S2010014

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar b) Geothermal ~~c) Coal~~ d) Tidal ✓
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
~~a) Coal~~ b) Geothermal c) Tidal d) Solar ✓
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 ~~b) 2002~~ c) 1963 d) 1956 ✓
- 5) In a hydroelectric power plant, the electric power is obtained from the _____
a) Chemical energy c) Nuclear energy
b) Potential energy ~~d) Energy of water~~ ✓
- 6) Based on usability, Energy Resources are classified into _____
~~a) primary, secondary and tertiary resources~~
b) primary and secondary resources ✗
c) primary, secondary, intermediate and tertiary resources
d) primary, intermediate and secondary resources
- 7) Which of the following is not a type of primary resource?
a) Crude Oil b) Coal c) Hydrogen Energy ~~d) Sunlight~~ ✗
- 8) Energy Resources which are being used for many decades are known as _____
~~a) conventional energy sources~~
b) non-conventional energy sources ✓
c) primary energy sources
d) fuel cells
- 9) Which of the statements is correct about Solar Energy?
~~a) It is a renewable and conventional source of energy~~
b) It is a non-renewable and non-conventional source of energy ✗
c) It is a renewable and non-conventional source of energy
d) It is a non-renewable source of energy
- 10) Which of these resources does not produce CO₂ during electricity generation?
a) Coal b) Methane ~~c) Uranium~~ d) Biogas ✓
- 11) Which of these is the major contributor to world pollution?
~~a) Commercial resources~~ c) Non-Commercial Resources ✓
b) Renewable Resources d) Nuclear Energy

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 a) Conventional Sources c) Non-Conventional Sources
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- 24) Which part of a house receives majority of solar radiation?
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- 25) Which of the following provides energy for winds to blow naturally?
 a) Water ~~b) Sun~~ c) Man d) Food ✓

APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : S2010015

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
a) Solar ~~b) Geothermal~~ c) Coal d) Tidal X
- 2) Tidal energy is energy obtained through _____
a) Wind b) Sunlight ~~c) Oceanic tides~~ d) Biomass ✓
- 3) Which one of the following is not a non-conventional energy sources?
a) Coal b) Geothermal ~~c) Tidal~~ d) Solar X
- 4) When was Rajasthan renewable energy corporation Ltd. Established?
a) 1980 ~~b) 2002~~ c) 1963 d) 1956 ✓
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b) Renewable Resources d) Nuclear Energy ✓

36
50

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APS college of Arts and Science

N.R colony Bangalore-560019

Department of Physics

Duration: 1 hr

Date: 21/2/23

Examination - Certificate course on Renewable Energy Resources

Register No. : 82010016

42
50

Answer the all the following questions each question carries two marks

(25 X 2 = 50)

- 1) Which of the following is a non-renewable resource?
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Dept. of Psychology Value Added COURSE FOR THE ACADEMIC YEAR

Date: / /
Page: / /
SPLASH

Date: / /
Page: / /
SPLASH

Sl.No.	NAME OF THE STUDENT	REGISTER NUMBER	COURSES COMBINATION	Semester	3/8/2022	10/8/2022	14/2023	28/4/2023	2/5/2023
01	SATHYA . Y	A2010019	BA (SEPSY)	IV	Sathya.y	Sathya.y	athya.y	Sathya.y	Sathya.y
02	VIKRAM . C	A2010023	BA (SEPSY)	IV	WRI	WRI	WRI	WRI	WRI
03	NEERAJA . R	A2010012	BA (SEPSY)	IV	AF	AF	AF	AF	AF
04	PINKY KUMARI . R	A2010014	BA (SEPSY)	IV	Pinky kumari	Pinky kumari	kumari	Pinky kumari	Pinky kumari
05	Neha . R	A2010013	BA (SEPSY)	IV	Neha R	Neha	Neha	Neha	Neha
06	VINUTHA . M	A2010025	BA (SEPSY)	IV	Vinutha	Vinutha	Vinutha	Vinutha	Vinutha
07	Hemalatha . K . H	A2010009	BA (SEPSY)	IV	H	H	H	H	H
08	SHANDY THOMAS	A2010020	BA (SEPSY)	IV	Shandy	Shandy	Shandy	Shandy	Shandy
09	SUNIL KUMAR . R	A2010022	BA (SEPSY)	IV	S . R	S . R	S . R	S . R	S . R
10	PRAVEEN . K . R	A2010015	BA (SEPSY)	IV	Praaveen . K . R	Praaveen . K . R	Praaveen . K . R	Praaveen . K . R	Praaveen . K . R
11	DEEKSHITH RASU . R	A2010007	BA (SEPSY)	IV	DEEKSHITH RASU . R	DEEKSHITH RASU . R	DEEKSHITH RASU . R	DEEKSHITH RASU . R	DEEKSHITH RASU . R
12	Nareatha . S	A2010011	BA (SEPSY)	IV	Nareatha . S	Nareatha . S	Nareatha . S	Nareatha . S	Nareatha . S
13	CHARAN . K	A2010005	BA (SEPSY)	IV	charan	charan	charan	charan	charan
14	ROHIT . S	A2010017	BA (SEPSY)	IV	ROHIT . S	ROHIT . S	ROHIT . S	ROHIT . S	ROHIT . S
15	CHANDRA SHEKAR . S	A2010004	BA (SEPSY)	IV	Ch	Ch	Ch	Ch	Ch

Sl.No.	NAME OF THE STUDENT	17/8/2022	24/8/2022	1/3/2023	15/3/2023	29/3/2023	5/4/2023	14/4/2023	28/4/2023	2/5/2023
01	SATHYA . Y	Sathya.y	Sathya.y	Sathya.y	Sathya.y	Sathya.y	Sathya.y	Sathya.y	Sathya.y	Sathya.y
02	VIKRAM . C	WRI	WRI	WRI	WRI	WRI	WRI	WRI	WRI	WRI
03	NEERAJA . R	A	A	A	A	A	A	A	A	A
04	PINKY KUMARI . K	Pinky kumar	Pinky kumar	Pinky kumar	Pinky kumar	Pinky kumar	Pinky kumar	Pinky kumar	Pinky kumar	Pinky kumar
05	Neha . R	Neha . R	Neha . R	Neha . R	Neha . R	Neha . R	Neha . R	Neha . R	Neha . R	Neha . R
06	VINUTHA . M	Vinutha . M	Vinutha . M	Vinutha . M	Vinutha . M	Vinutha . M	Vinutha . M	Vinutha . M	Vinutha . M	Vinutha . M
07	Hemalatha . K . H	H	H	H	H	H	H	H	H	H
08	SHANDY THOMA	Shandy	Shandy	Shandy	Shandy	Shandy	Shandy	Shandy	Shandy	Shandy
09	SUNIL KUMAR . K . S . P	S . P	S . P	S . P	S . P	S . P	S . P	S . P	S . P	S . P
10	PRAVEEN . K . R	P	P	P	P	P	P	P	P	P
11	DEEKSHITH RASU	D	D	D	D	D	D	D	D	D
12	Nareatha . S	N	N	N	N	N	N	N	N	N
13	CHARAN . K	C	C	C	C	C	C	C	C	C
14	ROHIT . S	R	R	R	R	R	R	R	R	R
15	CHANDRA SHEKAR . S	C	C	C	C	C	C	C	C	C

Sl.No.	NAME OF THE STUDENT	12/4/2023	19/4/2023	20/4/2023	21/4/2023	24/4/2023	25/4/2023	25/4/2023	28/4/2023	2/5/2023
01	SATHYA . Y	Sathya.y	Sathya.y	Sathya.y	Sathya.y	Sathya.y	Sathya.y	Sathya.y	Sathya.y	Sathya.y
02	VIKRAM . C	W81	W81	W81	W81	W81	W81	W81	W81	W81
03	NEERAJA . R	A	A	A	A	A	A	A	A	A
04	PINKY KUMARI . K	Pinky kumari	Pinky kumari	Pinky kumari	Pinky kumari	Pinky kumari	Pinky kumari	Pinky kumari	Pinky kumari	Pinky kumari
05	Neha . R	Neha.R	Neha.R	Neha.R	Neha.R	Neha.R	Neha.R	Neha.R	Neha.R	Neha.R
06	VINUTHA . M	Dutho.n	Dutho.n	Dutho.n	Dutho.n	Dutho.n	Dutho.n	Dutho.n	Dutho.n	Dutho.n
07	Hemalatha . K . H	Jal	Jal	Jal	Jal	Jal	Jal	Jal	Jal	Jal
08	SHANDY THOMA	Standy	Standy	Standy	Standy	Standy	Standy	Standy	Standy	Standy
09	SUNIL KUMAR . S	S . f	S . f	S . f	S . f	S . f	S . f	S . f	S . f	S . f
10	PRAVEEN . K . R	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
11	DEEKSHITH RAJU . D	D	D	D	D	D	D	D	D	D
12	Nanditha . S	Nanditha . S	Nanditha . S	Nanditha . S	Nanditha . S	Nanditha . S	Nanditha . S	Nanditha . S	Nanditha . S	Nanditha . S
13	CHARAN . K	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan	Charan
14	ROHIT . S	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit	Rohit
15	CHANDRA SHEKAR . S	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch	Ch



APS EDUCATIONAL TRUST (R)

(Estd 1935)



APS COLLEGE OF ARTS & SCIENCE

N.R COLONY, BENGALURU - 560 019

CERTIFICATE

The College records with pleasure that..... SATHYA.Y

of IV Sem B.A has successfully completed 30 hrs / 1 credits

Value Added course with grade

0

This Value added Course is in addition to his/her undergraduate course during the year..... 2022-23

Date: 09.05.2023

Programme Co-Ordinator

Principal

Grades: O=Outstanding(80-100)

A: Excellent(70-79)

B: Good(55-69)

C: Average (40-54)

1 Credit - 30hours of instruction.



APS EDUCATIONAL TRUST (R)

(Estd 1935)



APS COLLEGE OF ARTS & SCIENCE

N.R COLONY, BENGALURU - 560 019

CERTIFICATE

The College records with pleasure that.....HEMALATHA . K . H.....

ofIV Sem B.A.....has successfully completed30..... hrs /01..... credits

Value Added course with grade

This Value added Course is in addition to his/her undergraduate course during the year.....2022-23.....

Date: 02.05.2023


Programme Co-Ordinator


Principal

Grades: O=Outstanding(80-100)

A: Excellent(70-79)

B: Good(55-69)

C: Average (40-54)

1 Credit - 30hours of instruction.