



# ANNAI VAILANKANNI COLLEGE OF ENGINEERING

(A Christian Minority Institution)

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

Recognized under section 2(f) of UGC Act 1956

Website: [www.avce.edu.in](http://www.avce.edu.in)

**Dr.R.Angeline Prabhavathy**  
**PRINCIPAL**

## AUTHENTICATION CERTIFICATE

This is to certify that all the Value Added Courses conducted were not part of normal curriculum

Contents of Bridge Course:

1. DANCE (SOLO)
2. DANCE (GROUP)
3. SONG (SOLO)
4. SONG (GROUP)
5. ELOCUTION (TAMIL)
6. ELOCUTION (ENGLISH)
7. DRAWING
8. POETRY WRITING
9. QUIZ
10. BASIC GRAMMAR & SPOKEN ENGLISH

They are all aimed at promoting the overall skills and personality of the students over and above the curriculum.



**PRINCIPAL**  
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**ANNAI VAILANKANNI COLLEGE OF ENGINEERING**  
**POTTALKULAM**

**Address:**  
AVK Nagar, Pottalkulam,  
Azhagappapuram Post, Kanyakumari District - 629401.

**Email:**  
[info@avce.edu.in](mailto:info@avce.edu.in)

**Phone:**  
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Website: [www.avce.edu.in](http://www.avce.edu.in)

## DEPARTMENT OF CIVIL ENGINEERING

### VALUE ADDED COURSE

on

### “VAC2K22CEWM- Waste Management”

*Certificate will be issued.*

#### COURSE OBJECTIVE

- To obtain knowledge in Waste Management and Control.
- To acquire knowledge in Monitoring Pollution in Sanitary Landfills.
- To Gain knowledge in Environmental and health effects on solid waste management.
- To know about the Standards for Treatment and Disposal of Bio-Medical wastes.

#### Schedule:

01-08-2022 to 09-08-2022

\*\*Subject to change if required

**No Course Fees**

#### For details Contact:

Mrs.M.Morrin Gracida  
Assistant professor  
Department of Civil Engineering  
Email: [morrin-ce@avce.edu.in](mailto:morrin-ce@avce.edu.in)

#### COURSE OUTCOME

- Able to understand-Waste Management and Control.
- Acquire knowledge in Monitoring Pollution in Sanitary Landfills.
- Gain knowledge in Environmental and health effects on solid waste management.
- Knowing the Standards for Treatment and Disposal of Bio-Medical wastes.

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## DEPARTMENT OF CIVIL ENGINEERING

Academic Year 2022-2023

CIRCULAR

26/7/22

Ref: From the desk of the CE HOD/ CE. Ref No: 2022-2023/CE/ VAC2K22CEWM

It is decided to conduct **WASTE MANAGEMENT** Course for II, III & IV Year Civil Engineering Students for the academic year 2022-2023. Students are asked to contact their respective Class in charge for the enrolment of the course on or before 29/7/22. The course will be held from 01/8/22 for II, III & IV year Students.

**Venue:**

BOSCH LAB

**Students are asked to use this opportunity to obtain knowledge in waste management and control.**

ALL THE BEST

  
HOD/CE



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*Department of Civil Engineering*

Course Code: VAC2K22CEWM

*Course Name: Waste Management*

## *SUMMARY*

The Value Added Course in “Waste Management” during the academic year 2022-2023, was planned for Civil Engineering students during the month of August 2022.

The main intention of the course was to provide knowledge about the Concept of managing waste and disposing them in safe manner 37 students enrolled for the course and participated in the course

Students gained knowledge in various aspects of

- ✓ Understanding -Waste Management and Control.
- ✓ Acquire knowledge in Monitoring Pollution in Sanitary Landfills.
- ✓ Gain knowledge in Environmental and health effects on solid wastemanagement
- ✓ Knowing the Standards for Treatment and Disposal of Bio-Medical wastes

Feedback collected from the students for further improvement in delivery the value added course

*F. Remila*  
COURSE COORDINATOR



*H. Om*  
HOD



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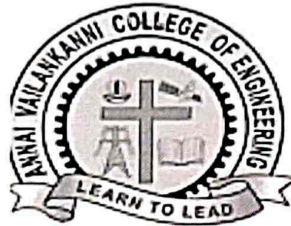


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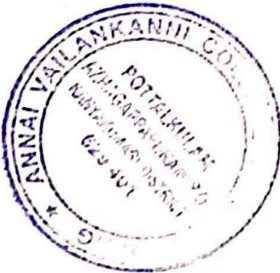
**ANNAI VAILANKANNI COLLEGE OF ENGINEERING**  
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AVK Nagar, PothaiyadiSalai, Pottalkulam  
Azhagappapuram Post, Kanyakumari District - 629 401



**DEPARTMENT OF CIVIL ENGINEERING**

**VALUE ADDED COURSE: WASTE MANAGEMENT**

**COURSE CODE: VAC2K22CEWM**



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AZHAGAPPAPURAM - 629 401  
KANYAKUMARI DIST.

# WASTE MANAGEMENT- VAC2K19-CIVWM

## Syllabus

### Unit I -Waste Management and Control

Sources of waste- integrated waste management - waste storage - waste collection- waste transfer and transport methods of disposal-Open dump-landfill Incineration- onsite disposal- sanitary disposal.

### Unit II- Monitoring Pollution in Sanitary Landfills

Monitoring pollution in sanitary landfills-hazards effect on pollution from landfills- resource recovery-sustainability- avoidance and reduction method , Waste minimization.

### Unit III - Cost

Environmental costs- social costs-economic costs-waste management concepts, Environmental and health effects on solid waste management-environmental aspects.

### Unit IV- Environmental and Health Effects of Bio Medical Waste Management

Biomedical wastes –sources and classification of biomedical wastes.

### Unit V- Standards for Treatment and Disposal of Bio-Medical wastes

Disposal methods-management of biomedical wastes-control methods-techniques.

**Duration 45 Periods**



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**DEPARTMENT OF CIVIL ENGINEERING**  
**VALUE ADDED COURSE: WASTE MANAGEMENT**  
**COURSE CODE: VAC2K22CEWM**

**DAY: I**

SESSION I			
PERIOD	DATE	TIMINGS	HOURS
1	01.08.2022	9.00 AM-10.30 AM	1.30
2	01.08.2022	11.00 AM-12.30 PM	1.30
SESSION II			
3	01.08.2022	1.00 PM-2.30 PM	1.30
4	01.08.2022	2.30 PM-4.00 PM	1.30

**DAY: II**

SESSION I			
PERIOD	DATE	TIMINGS	HOURS
1	02.08.2022	9.00 AM-10.30 AM	1.30
2	02.08.2022	11.00 AM-12.30 PM	1.30
SESSION II			
3	02.08.2022	1.00 PM-2.30 PM	1.30
4	02.08.2022	2.30 PM-4.00 PM	1.30

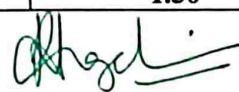
**DAY: III**

SESSION I			
PERIOD	DATE	TIMINGS	HOURS
1	03.08.2022	9.00 AM-10.30 AM	1.30
2	03.08.2022	11.00 AM-12.30 PM	1.30
SESSION II			
3	03.08.2022	1.00 PM-2.30 PM	1.30
4	03.08.2022	2.30 PM-4.00 PM	1.30

**DAY: IV**

SESSION I			
PERIOD	DATE	TIMINGS	HOURS
1	04.08.2022	9.00 AM-10.30 AM	1.30
2	04.08.2022	11.00 AM-12.30 PM	1.30
SESSION II			
3	04.08.2022	1.00 PM-2.30 PM	1.30
4	04.08.2022	2.30 PM-4.00 PM	1.30



  
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DAY : V

SESSION I			
PERIOD	DATE	TIMINGS	HOURS
1	05.08.2022	9.00 AM-10.30 AM	1.30
2	05.08.2022	11.00 AM-12.30 PM	1.30
SESSION II			
3	05.08.2022	1.00 PM-2.30 PM	1.30
4	05.08.2022	2.30 PM-4.00 PM	1.30

DAY: VI

SESSION I			
PERIOD	DATE	TIMINGS	HOURS
1	06.08.2022	9.00 AM-10.30 AM	1.30
2	06.08.2022	11.00 AM-12.30 PM	1.30
SESSION II			
3	06.08.2022	1.00 PM-2.30 PM	1.30
4	06.08.2022	2.30 PM-4.00 PM	1.30

DAY : VII

SESSION I			
PERIOD	DATE	TIMINGS	HOURS
1	08.08.2022	9.00 AM-10.30 AM	1.30
2	08.08.2022	11.00 AM-12.30 PM	1.30
SESSION II			
3	08.08.2022	1.00 PM-2.30 PM	1.30
4	08.08.2022	2.30 PM-4.00 PM	1.30

DAY: VIII

SESSION I			
PERIOD	DATE	TIMINGS	HOURS
1	09.08.2022	9.00 AM-10.30 AM	1.30
2	09.08.2022	11.00 AM-12.30 PM	1.30
SESSION II			
3	09.08.2022	1.00 PM-2.30 PM	1.30
4	09.08.2022	2.30 PM-4.00 PM	1.30

*H. Remita*

COURSE COORDINATOR

*H. H. H.*  
HOD



*[Signature]*  
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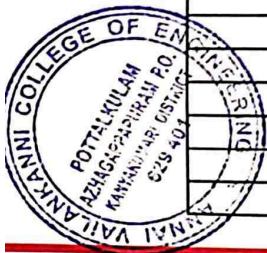
## DEPARTMENT OF CIVIL ENGINEERING

### VAC COURSE ON WASTE MANAGEMENT

ACADEMIC YEAR 2022-2023

### STUDENTS ENROLLED LIST

Sl.No	RegNo	Name	Year
1	960119103001	CHITRA A	IVCivil
2	960119103002	KARTHIKA C	IVCivil
3	960119103003	LAKSHMI E	IVCivil
4	960119103004	SUBINRAJ T	IVCivil
5	960119103005	UMA R	IVCivil
6	960119103301	RAJAN K	IVCivil
7	960120103002	JENIN C	IIICivil
8	960120103003	SNEKA C	IIICivil
9	960120103004	THANESH KUMAR R	IIICivil
10	960120103301	ALEX J	IIICivil
11	960120103302	AYNASH JOSHUA T	IIICivil
12	960120103303	BALA MURUGAN R	IIICivil
13	960120103304	ESAIKUMAR J	IIICivil
14	960120103307	PRINCE P R	IIICivil
15	960120103308	PRINCY CHERIYAN	IIICivil
16	960120103309	RAMESH ELANGO R	IIICivil
17	960120103310	SAHAYA GREETES C	IIICivil
18	960120103311	SINDHU M	IIICivil
19	960121103001	ABISH R	IICivil
20	960121103002	ANU DHARSHINI N	IICivil
21	960121103003	BAVI K	IICivil
22	960121103004	DEVI S	IICivil
23	960121103005	JESHIKA S	IICivil
24	960121103008	PAVITHRA K	IICivil
25	960121103009	SNEHA N	IICivil
26	960121103010	SUBISHA J	IICivil
27	960121103011	SWETHA S	IICivil
28	960121103302	ESAKKI PANDI K	IICivil
29	960121103303	JACOB ALLWIN R	IICivil



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30	960121103304	JEBISH J	IICivil
31	960121103305	MAGESH M	IICivil
32	960121103306	MARIA AJITH M	IICivil
33	960121103307	NIBIN N	IICivil
34	960121103308	RATHEESH C	IICivil
35	960121103310	SENTHIL KUMAR K	IICivil
36	960121103311	SUJIN P	IICivil
37	960121103312	VINU C	IICivil

*J. Remila*  
COURSE COORDINATOR

*HOD*  
HOD



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**AZHAGAPPAPURAM P O, KK DISTRICT, TAMILNADU 629 401**  
**VALUE ADDED COURSE: WASTE MANAGEMENT**  
**COURSE CODE: VAC2K22CEWM**

**ATTENDANCE - SESSION I**

SL.NO	NAME OF THE STUDENT	YEAR/DEPT	1/8	2/8	3/8	4/8	5/8	6/8	7/8	8/8	9/8	10/8	11/8	12/8
1	CHIRRAA A	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
2	KARTHIGA C	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
3	LAKSHMI E	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
4	SUBINRAJ T	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
5	UMA K	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
6	RAJAN K	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
7	JENIN C	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
8	SNEHA C	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
9	JHANESH KUMAR R	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
10	ALEX J	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
11	AYANASH JOSHUA T	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
12	BALA MURUGAN R	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
13	ESAIKUMAR J	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
14	PRINCE P R	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
15	PRINCY CHERIAN	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
16	RAMESH LLANGO R	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
17	SAHAYA GREETES C	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
18	SINDHU M	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
19	ABISH R	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
20	ANU DHARSHINI N	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
21	BAVI K	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
22	DEVI S	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
23	JESHKA S	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
24	PAVITHRA K	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
25	SNEHA N	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
26	SUBISHA J	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
27	SWETHA S	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
28	ESAKKI PANDI K	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
29	JACOB ALLWIN R	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
30	JEBISH J	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
31	MAGESH M	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
32	MARIA AJITH M	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
33	NIBIN N	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
34	RATHILESH C	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
35	SENTHIL KUMAR K	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
36	SUJIN P	II/CE	P	P	P	P	P	P	P	P	P	P	P	P
37	VINU C	II/CE	P	P	P	P	P	P	P	P	P	P	P	P



S. Remita  
 COURSE COORDINATOR

*[Signature]*

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ATTENDANCE - SESSION II

SL.NO	NAME OF THE STUDENT	YEAR/DEPT	1/8	2/8	3/8	4/8	5/8	6/8	7/8	8/8	9/8	10/8	11/8	12/8	13/8	14/8	15/8	16/8	17/8	18/8	19/8	20/8	21/8	22/8	23/8	24/8	25/8	26/8	27/8	28/8	29/8	30/8	31/8			
1	CHIIRA A	IV/CE																																		
2	KARTHIKA C	IV/CE																																		
3	LAKSHMI E	IV/CE																																		
4	SUBINKA J T	IV/CE																																		
5	UMIA R	IV/CE																																		
6	RAJAN K	IV/CE																																		
7	JENIN C	III/CE																																		
8	SNEKA C	III/CE																																		
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12	BALA MURUGAN R	III/CE																																		
13	ESAINUMAR J	III/CE																																		
14	PRINCE P R	III/CE																																		
15	PRINCY CHERIYAN	III/CE																																		
16	RAMESH ELANGO R	III/CE																																		
17	SAHAYA GREETES C	III/CE																																		
18	SINDHU M	III/CE																																		
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30	JEBISH J	III/CE																																		
31	MAGESH M	III/CE																																		
32	MARLA AJITH M	III/CE																																		
33	NIWIN N	III/CE																																		
34	RATHLEESH C	III/CE																																		
35	SENTHIL KUMAR K	III/CE																																		
36	SUJIN P	III/CE																																		
37	VINU C	III/CE																																		

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## DEPARTMENT OF CIVIL ENGINEERING VAC COURSE ON WASTE MANAGEMENT

### MCQs on Waste Management

1. Waste removal system was established in which of the following cities for the first time?

- (a) Athens
- (b) Lahore
- (c) Paris
- (d) London

2. Which of the following solid wastes describes the term 'Municipal Solid Waste'?

- (a) Toxic
- (b) Hazardous
- (c) Non-toxic
- (d) Non-hazardous

3. Why is it difficult to recycle plastics?

- (a) It is very hard
- (b) It comes in different sizes
- (c) It is adhesive
- (d) It contains different types of polymer resins



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+91-98410 11760

4. Which of the following is done on an individual level?

- (a) Burning
- (b) Disposal
- (c) Recycling
- (d) Source reduction

5. Why is recycled paper banned for use in food containers?

- (a) Because it creates a lot of spaces
- (b) Because it creates contamination
- (c) Because paper can be used only one time
- (d) Because paper is very thick and can't cover the food containers

6. Which of the following plans is used as a waste management plan?

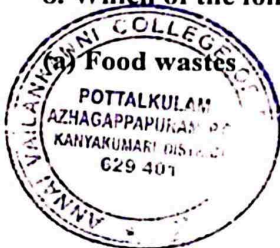
- (a) Plan for reuse
- (b) The integrated plan
- (c) Plan for recycling
- (d) Plan for reducing


7. The organic material of the solid waste will decompose

- (a) By the flow of water
- (b) By the soil particles
- (c) By the action of microorganisms
- (d) By oxidation

8. Which of the following wastes is called the Municipal Solid Waste (MSW)?

- (a) Food wastes



  
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- (b) Wood pieces
- (c) Plastic cans
- (d) All of the above

9. The process of burning municipal solid wastes under suitable temperature and conditions in a specific furnace is called \_\_\_\_\_.

- (a) Landfill
- (b) Incineration
- (c) Recycling
- (d) Vermi composting

10. The burning of solid waste is not recommended because

- (a) It is very costly
- (b) It requires a lot of space
- (c) It requires modern technologies
- (d) It causes several environmental issues


11. When the organic matter present in the sanitary landfill decomposes, it generates

- (a) Methane
- (b) Nitrogen
- (c) Hydrogen
- (d) All of the above

12. Which of the following is the oldest and the most common method used to dump solid wastes?

- (a) River



  
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- (b) Ocean
- (c) Landfill
- (d) None of the above

13. The disposable wastes contain

- (a) Solids
- (b) Slurries
- (c) Liquids
- (d) All of the above

14. Find the correct statement

- (a) The waste from one process becomes the input for another process
- (b) All the processes related to consumption and production produce some kind of waste
- (c) There is no real waste in nature
- (d) All of the above


15. Which of the following methods is better for the solid waste problem?

- (a) Recycling
- (b) Landfilling
- (c) Both a and b
- (d) None of the above

16. Which of the following statements is incorrect for plastic wastes?

- (a) It is used to make compost
- (b) It lasts for a longer period of time
- (c) Toxic fumes are produced when burnt



  
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(d) All of the above

17. Which of the following can be recycled many times?

(a) Wood

(b) Plastic

(c) Aluminium

(d) Organic materials

18. Which of the following gas is produced from landfill wastes?

(a) Biogas

(b) Natural gas

(c) Liquified petroleum gas

(d) All of the above

19. Which of the following statements is true about zero waste management?

(a) Separate collection of each kind of waste

(b) Segregation of garbage at the source

(c) Community involvement

(d) All of the above

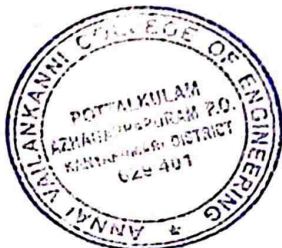
20. How many main components are there in integrated waste management?


(a) Two

(b) Three

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21. Amongst the following options of solid wastes, which one describes the term “Municipal Solid Waste”?

- a. Hazardous
- b. Toxic
- c. Non-hazardous
- d. Non-toxic

22. Which among the following is used to dump the waste collected in the cities?

- a. Landfills
- b. Oceans
- c. River
- d. All of the above

23. Which of the following material can be recycled multiple times?

- a. Aluminium
- b. Wood
- c. Organic Materials
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24. The gas produced from the landfill wastes is known as \_\_\_\_\_

- a. Liquified Petroleum Gas
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- d. None of the above

25. Solid Waste Management has how many functional components?

- a. Four
- b. Five
- c. Six
- d. Three

26. What is the full form of ISWM?

- a. Integrated Solid Waste Machine
- b. International Solid Waste Management
- c. International Solid Waste Mechanism
- d. Integrated Solid Waste Management

27. How many ways are there to treat the waste thermally?

- a. 3



*Angel*  
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- b. 6
- c. 2
- d. 5

28. Which gas is generated on the decomposition of the organic matter present in the sanitary landfill?

- a. Oxygen
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29. Identify the incorrect statement of the following given statements regarding the plastic wastes.

- a. Plastic can be used to form compost
- b. When we burn plastic, toxic fumes are released
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30.. How many types of landfills are there?

- a. 5
- b. 2
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31. How many major sources of solid waste are there based on their origin?

- a) 10
- b) 5
- c) 9
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32. Which of the below is not an idea behind solid waste management?

- a) Control of waste generation
- b) Storage and collection
- c) Disposal
- d) Stop waste generation

33. The number of functional components of solid waste management is:

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d) 4

34. The term ISWM refers to:

- a) International Solid Waste Management
- b) Integrated Solid Waste Management
- c) Integrated Solid Waste Machine
- d) International Solid Waste Mechanism

35. There are \_\_\_\_\_ ways to treat waste thermally.

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37. The WHO has classified the bio-medical waste into \_\_\_\_\_ categories.

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38. Which gas produced in open dumps from the decomposition of biodegradable waste?

- a) Ethane
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1. Incineration
2. Burying in landfill sites
3. Dumping in developing countries
4. Recycling

42. Why is plastic so difficult to recycle?

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2. Because plastic is inherently sticky,
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2. plastic can
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4. Three

**48. Which integrated waste management is reduced on an individual level?**

1. Burning
2. Disposal
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**49. Which of the following statements is not true about plastic waste?**

1. Can be used to make organic fertilizer
2. It lasts longer
3. The toxic smoke is produced during combustion
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**50. Which is the least preferred strategy of Integrated Solid Waste Management according to their Environmental benefits?**

1. Landfills
2. Composting
3. Waste to Energy
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## DEPARTMENT OF CIVIL ENGINEERING VAC COURSE ON WASTE MANAGEMENT MCQs on Waste Management with answers

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- (a) Athens
- (b) Lahore
- (c) Paris
- (d) London

Sol:(a) Athens.

2. Which of the following solid wastes describes the term 'Municipal Solid Waste'?

- (a) Toxic
- (b) Hazardous
- (c) Non-toxic
- (d) Non-hazardous

Sol:(d) Non-hazardous.

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- (a) It is very hard
- (b) It comes in different sizes
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4. Which of the following is done on an individual level?

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Sol: (d) Source reduction.

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(c) Because paper can be used only one time

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Sol:(b) The integrated plan.

7. The organic material of the solid waste will decompose

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(b) It requires a lot of space

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Sol:(d) It causes several environmental issues.

11. When the organic matter present in the sanitary landfill decomposes, it generates

(a) Methane

(b) Nitrogen

(c) Hydrogen

(d) All of the above

Sol: (a) Methane

12. Which of the following is the oldest and the most common method used to dump solid wastes?

(a) River

(b) Ocean

(c) Landfill

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Sol:(d) All of the above.

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17. Which of the following can be recycled many times?

- (a) Wood
- (b) Plastic



  
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(c) Aluminium

(d) Organic materials

Sol:(c) Aluminium.

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(a) Biogas

(b) Natural gas

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19. Which of the following statements is true about zero waste management?

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Sol:(d) All of the above.

20. How many main components are there in integrated waste management?

(a) Two


(b) Three

(c) Seven

(d) Eleven

Sol:(b) Three.



  
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- b. Toxic
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Ans: c. Non-Hazardous

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- a. Landfills
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Ans: a. Landfills

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Ans: a. Aluminium

24. The gas produced from the landfill wastes is known as \_\_\_\_\_

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- d. None of the above


25. Solid Waste Management has how many functional components?

- a. Four
- b. Five
- c. Six
- d. Three

Ans: c. Six

26. What is the full form of ISWM?



  
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- a. Integrated Solid Waste Machine
- b. International Solid Waste Management
- c. International Solid Waste Mechanism
- d. Integrated Solid Waste Management

Ans: d. Integrated Solid Waste Management

27. How many ways are there to treat the waste thermally?

- a. 3
- b. 6
- c. 2
- d. 5

Ans. a. 3

28. Which gas is generated on the decomposition of the organic matter present in the sanitary landfill?

- a. Oxygen
- b. Methane
- c. Nitrogen
- d. Hydrogen

Ans: b. Methane

29. Identify the incorrect statement of the following given statements regarding the plastic wastes.

- a. Plastic can be used to form compost
- b. When we burn plastic, toxic fumes are released
- c. These wastes last for a longer period of time
- d. All of the above


Ans. a. Plastic can be used to form compost

30.. How many types of landfills are there?

- a. 5
- b. 2
- c. 3
- d. 4

Ans. c. 3



  
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31. How many major sources of solid waste are there based on their origin?

- a) 10
- b) 5
- c) 9
- d) 6

Answer: c

32. Which of the below is not an idea behind solid waste management?

- a) Control of waste generation
- b) Storage and collection
- c) Disposal
- d) Stop waste generation

Answer: d

33. The number of functional components of solid waste management is:

- a) 5
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Answer: c

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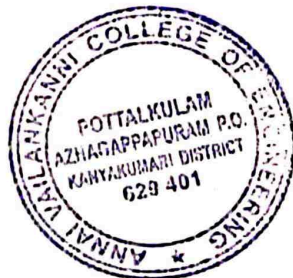
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- b) 2
- c) 5
- d) 4

Answer: a

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Answer: b

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Answer: b

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- 1. Cadmium
- 2. Pb
- 3. Mercury
- 4. Mg


Answer – b, Pb

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- 1. By the flow of water
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Answer – c, By the act of microorganisms



  
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Answer – d, Recycling

42. Why is plastic so difficult to recycle?

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2. Because plastic is inherently sticky,
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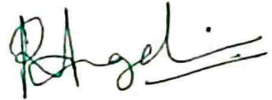
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4. Recycling

Answer – a, Landfills



  
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R. Uma  
IV Civil

50/50

DEPARTMENT OF CIVIL ENGINEERING  
VAC COURSE ON WASTE MANAGEMENT

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A handwritten signature in green ink, appearing to read "R. Uma".

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12. Which of the following is the oldest and the most common method used to dump solid wastes?

(a) River

✓(b) Ocean



(c) Landfill

(d) None of the above

13. The disposable wastes contain

(a) Solids

(b) Slurries

(c) Liquids

(d) All of the above

14. Find the correct statement

(a) The waste from one process becomes the input for another process

(b) All the processes related to consumption and production produce some kind of waste

(c) There is no real waste in nature

(d) All of the above

15. Which of the following methods is better for the solid waste problem?

(a) Recycling

(b) Landfilling

(c) Both a and b

(d) None of the above

16. Which of the following statements is incorrect for plastic wastes?

(a) It is used to make compost

(b) It lasts for a longer period of time

(c) Toxic fumes are produced when burnt

(d) All of the above



17. Which of the following can be recycled many times?

- (a) Wood
- (b) Plastic
- (c) Aluminium
- (d) Organic materials

18. Which of the following gas is produced from landfill wastes?

- (a) Biogas
- (b) Natural gas
- (c) Liquefied petroleum gas
- (d) All of the above

19. Which of the following statements is true about zero waste management?

- (a) Separate collection of each kind of waste
- (b) Segregation of garbage at the source
- (c) Community involvement
- (d) All of the above

20. How many main components are there in integrated waste management?

- (a) Two
- (b) Three
- (c) Seven
- (d) Eleven

21. Amongst the following options of solid wastes, which one describes the term "Municipal Solid Waste"?





- a. Hazardous
- b. Toxic
- c. Non-hazardous
- d. Non-toxic

22. Which among the following is used to dump the waste collected in the cities?

- a. Landfills
- b. Oceans
- c. River
- d. All of the above

23. Which of the following material can be recycled multiple times?

- a. Aluminium
- b. Wood
- c. Organic Materials
- d. Plastic

24. The gas produced from the landfill wastes is known as \_\_\_\_\_

- a. Liquefied Petroleum Gas
- b. Natural Gas
- c. Biogas
- d. None of the above

25. Solid Waste Management has how many functional components?

- a. Four
- b. Five
- c. Six
- d. Three

26. What is the full form of ISWM?

- a. Integrated Solid Waste Machine
- b. International Solid Waste Management
- c. International Solid Waste Mechanism
- d. Integrated Solid Waste Management

27. How many ways are there to treat the waste thermally?

- a. 3
- b. 6
- c. 2
- d. 5



28. Which gas is generated on the decomposition of the organic matter present in the sanitary landfill?

- a. Oxygen
- b. Methane
- c. Nitrogen
- d. Hydrogen

29. Identify the incorrect statement of the following given statements regarding the plastic wastes.

- a. Plastic can be used to form compost
- b. When we burn plastic, toxic fumes are released
- c. These wastes last for a longer period of time
- d. All of the above

30.. How many types of landfills are there?

- a. 5
- b. 2
- c. 3
- d. 4

31. How many major sources of solid waste are there based on their origin?

- a) 10
- b) 5
- c) 9
- d) 6

32. Which of the below is not an idea behind solid waste management?

- a) Control of waste generation
- b) Storage and collection
- c) Disposal
- d) Stop waste generation

33. The number of functional components of solid waste management is:

- a) 5
- b) 3
- c) 6
- d) 4

34. The term ISWM refers to:

- a) International Solid Waste Management



- b) Integrated Solid Waste Management
- c) Integrated Solid Waste Machine
- d) International Solid Waste Mechanism

35. There are \_\_\_\_\_ ways to treat waste thermally.

- a) 5
- b) 3
- c) 2
- d) 6

36. How many types of landfills are there?

- a) 3
- b) 2
- c) 5
- d) 4

37. The WHO has classified the bio-medical waste into \_\_\_\_\_ categories.

- a) 5
- b) 4
- c) 3
- d) 2

38. Which gas produced in open dumps from the decomposition of biodegradable waste?

- a) Ethane
- b) Methane
- c) Propene
- d) Ethene

39. The newspaper contains one of the following toxic materials. it is

- 1. Cadmium
- 2. Pb
- 3. Mercury
- 4. Mg

40. The organic material of the solid waste will decompose

- 1. By the flow of water
- 2. The soil particles
- 3. The action of microorganisms
- 4. By oxidation

41. Eventually, the only solution for the treatment of e-waste, provided it is carried out in an environment-friendly manner, is:

- 1. Incineration
- 2. Burying in landfill sites
- 3. Dumping in developing countries



✓ 4. Recycling

42. Why is plastic so difficult to recycle?

- 1. It's a rigid material.
- 2. Because plastic is inherently sticky,
- ✓ 3. Due to different types of polymer resins
- 4. Due to the different sizes of plastic

43. Identify the Wastes That Are Known as Municipal Solid Waste (MSW) from the following?

- 1. piece of wood
- 2. plastic can
- 3. food waste
- ✓ 4. all of the above

44. How Does an Organic Material Decompose in the Buried Solid Waste?

- ✓ 1. By the action of microorganisms
- 2. By the action of oxidation
- 3. By the soil particles
- 4. By the flow of water

45. Which of the following gases is generated when the matter inside the sanitary landfill breaks down?

- ✓ 1. Methane
- 2. Nitrogen
- 3. Hydrogen
- 4. All of the above

46. Municipal solid wastes are burned in a properly designed furnace under suitable temperatures and operating conditions. This process is called as

- 1. Landfill
- ✓ 2. Incineration
- 3. Recycling
- 4. Vermicomposting

47. Solid Waste Management has how many functional components?

- 1. Four
- 2. Five
- ✓ 3. Six
- 4. Three

48. Which integrated waste management is reduced on an individual level?



1. Burning
2. Disposal
3. Recycling
- ✓ 4. Source reduction

49. Which of the following statements is not true about plastic waste?


- ✓ 1. Can be used to make organic fertilizer
2. It lasts longer
3. The toxic smoke is produced during combustion
4. All of the above

50. Which is the least preferred strategy of Integrated Solid Waste Management according to their Environmental benefits?

- ✓ 1. Landfills
2. Composting
3. Waste to Energy
4. Recycling



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 <b>ANNAI VAILANKANNI COLLEGE OF ENGINEERING</b> <b>AZHAGAPPAPURAM,P.O,KK DISTRICT,TAMIL NADU -629 401</b> <b>VALUE ADDED COURSE: WASTE MANAGEMENT</b> <b>COURSE CODE: VAC2K22CEWM</b>			
SL.NO	NAME OF THE STUDENT	YEAR/DEPT	MARKS(100)
1	CHITRA A	IV/CE	90
2	KARTHIKA C	IV/CE	82
3	LAKSHMI E	IV/CE	100
4	SUBINRAJ T	IV/CE	90
5	UMA R	IV/CE	100
6	RAJAN K	IV/CE	85
7	JENIN C	III/CE	95
8	SNEKA C	III/CE	100
9	THANESH KUMAR R	III/CE	100
10	ALEX J	III/CE	85
11	AYNASH JOSHUA T	III/CE	80
12	BALA MURUGAN R	III/CE	95
13	ESAIKUMAR J	III/CE	85
14	PRINCE P R	III/CE	80
15	PRINCY CHERIYAN	III/CE	100
16	RAMESH ELANGO R	III/CE	85
17	SAHAYA GREETES C	III/CE	85
18	SINDHU M	III/CE	95
19	ABISH R	II/CE	85
20	ANU DHARSHINI N	II/CE	90
21	BAVI K	II/CE	100
22	DEVI S	II/CE	100
23	JESHIKA S	II/CE	100
24	PAVITHRA K	II/CE	100
25	SNEHA N	II/CE	92
26	SUBISHA J	II/CE	92
27	SWETHA S	II/CE	92
28	ESAKKI PANDI K	II/CE	95
29	JACOB ALLWIN R	II/CE	98
30	JEBISH J	II/CE	82
31	MAGESH M	II/CE	86
32	MARIA AJITH M	II/CE	78
33	NIBIN N	II/CE	95
34	RATHEESH C	II/CE	92
35	SENTHIL KUMAR K	II/CE	98
36	SUJIN P	II/CE	86
37	VINU C	II/CE	96

*H. Remula*  
COURSE COORDINATOR

*Hem*  
HOD



*[Signature]*  
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## Certificate

This is to certify that Mr/Ms. Sneka.C.  
of Annai Vailankanni College of Engineering  
has attended the Course on Waste Management.  
during the academic Year 2022-2023

H. Perma  
CO-ORDINATOR

Hoss  
HOD

J. Srin  
PRINCIPAL



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CO-ORDINATOR

Hoss  
HOD

J. Anir  
PRINCIPAL



DEPARTMENT OF CIVIL ENGINEERING

FEEDBACK

(Value added Course Training)

Name of the Program	:	Certificate Course Training		
Topic	:	Waste Management		
Date:	:	1/8/2022 - 9/8/2022	Time:	9.00 am - 4.00 pm
Year	:	I/II/III/IV/Others		

1. The quality of the course content:

5. Excellent  4. Very Good  3. Good  2. Satisfactory  1. Poor

2. The sequence of the Training plan:

5. Excellent  4. Very Good  3. Good  2. Satisfactory  1. Poor

3. Your Expectation and level of the Training:

5. Excellent  4. Very Good  3. Good  2. Satisfactory  1. Poor

4. Interaction/ Hands-on Sessions of the faculty:

5. Excellent  4. Very Good  3. Good  2. Satisfactory  1. Poor

5. The quality of course material:

5. Excellent  4. Very Good  3. Good  2. Satisfactory  1. Poor

6. The training was clear and easy to understand:

5. Excellent  4. Very Good  3. Good  2. Satisfactory  1. Poor


7. Suggestion for improvement if any : More value added course training can be conducted.

8. Overall rating about certificate course Value added Course Training :

5. Excellent  4. Very Good  3. Good  2. Satisfactory  1. Poor



R.uma  
Name & Signature of the Participant

  
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AVK Nagar, Pottalkulam, Azhagappapuram P.O, Kanyakumari District -629401

### REPORT ON BRIDGE COURSE PROGRAM – 2022-2023

As a part of identifying the skills of our students, they were asked to choose one skill related to the arts whether visual arts or performing arts. They were given chance to perform their art and skills like oratory, essay writing, poem composing, quiz, drawing, painting, sculpture, pottery, music, dance etc. And the names of students were segregated into different groups based on their interests and talents.

#### COMPETITIONS:

Eleven groups were formed to encourage the skills of our students and they were encouraged to improve their skills and they were brought to the dais to perform their skills. As a part of improving their skills, it was decided to conduct competitions to them based on their interests. Students were very interested in enrolling their names to participate in various competitions such as elocution, essay writing, poem composing, quiz, drawing, painting, singing and dance.

We have planned and conducted eleven competitions to find out the skills and bring out them. So, competitions on Drawing, Painting, Essay Writing in Tamil, Essay Writing in English, Poem Composing in Tamil and Poem Composing in English have been conducted.

#### DRAWING AND PAINTING COMPETITIONS:

Forty- five students chose drawing as their interested skill and enrolled their names to participate in drawing and painting competitions but only 18 students participated.

#### ESSAY WRITING COMPETITIONS:

Twenty-seven students prefer the skill, "Art of Writing Essays". Seventeen students enrolled their names for Essay Writing Competitions in Tamil and 27 students for Essay Writing Competitions in English.



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**POEM COMPOSING COMPETITIONS:**

Fifteen students were able to identify their poem composing skill and all of them enrolled their names to participate in the poem composing competition. All of them decided to participate in both Tamil and English Poem Composing Competitions.

**Contents of Bridge Course**

1. DANCE (SOLO)
2. DANCE (GROUP)
3. SONG (SOLO)
4. SONG (GROUP)
5. ELOCUTION (TAMIL)
6. ELOCUTION (ENGLISH)
7. DRAWING
8. POETRY WRITING
9. QUIZ
10. BASIC GRAMMAR & SPOKEN ENGLISH

Finally the valedictory program was held on 28-11-2022 in the afternoon session external judges Mr. Robert and Mrs.Sweety have judged the program and the selection list was finalised , at last the program came to-an end at 3.30 pm.

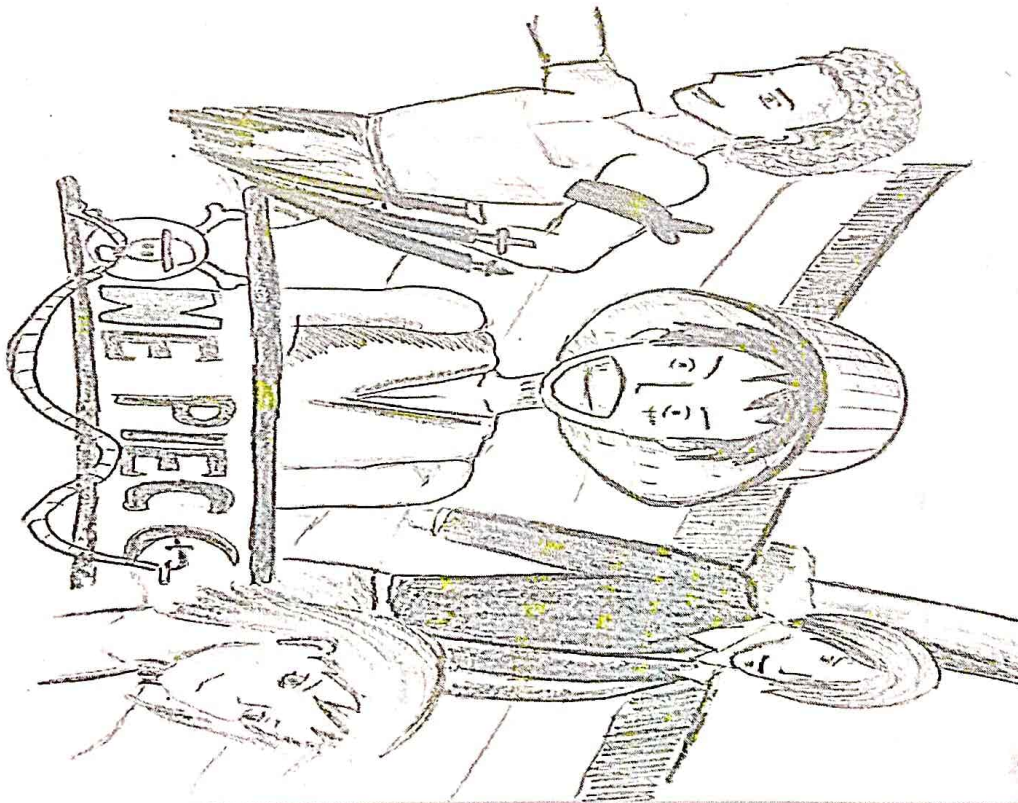
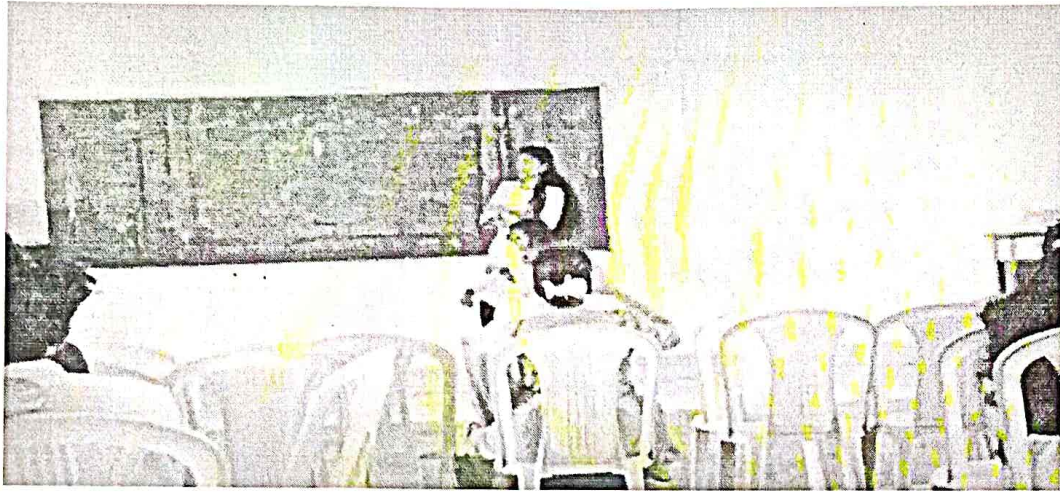
COORDINATOR

HOD

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*Handwritten signature in green ink.*

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COORDINATOR

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HOD

*B. S. S. S.*  
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*R. Raju*

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# **Basic Grammar & Spoken English Questions**

## Questions to motivate spoken English

- How will you introduce yourself?
- Describe your hometown/village
- Write a few sentences about a person you admire.
- Write a few sentences about your favourite subject
- What are the advantages and disadvantages of watching television?
- How will you direct a person to Annai Vailankanni College of Engineering from Chennai?



## **Frame questions for the given**

### **sentences**

- I went to the beach yesterday.
- Reading is my hobby
- The class was good
- Columbus discovered America

## **Spot the error in the following**

### **sentences**

- The taste of pepper and salt were overpowering
- Everything except the flowers are ready

- He is one of those people who never listens to reason
- Bread and butter are a favoured breakfast

## Choose the correct synonyms

Sl No	Question	Choices
a	Comrade	Associate/ Enemy/ Companion/ Acquaintance
b	Ample	Able/ Capable/ Sufficient/ Scarce
c	Zeal	Dull/ Apathy/ Zenith/ Enthusiasm
d	Inevitable	Invisible/ Incapable / Unavoidable/

Inedible

## Choose the correct antonyms

Sl.No	Question	Choices
a	Agony	Pain/Peace/Ecstasy/ Serenity
b	Attract	Subtract/Repel/Draw/Pull
c	Fertile	Lush/ Abundant/ Rich/ Barren
d	Unique	Common/ Sole/ Exclusive/ Single

**Read the passage and answer the questions given below**

- India is \_\_\_ unique nation. \_\_\_  
Indian subcontinent is \_\_\_  
peninsula in \_\_\_ southern part of  
Asia.

**Insert the correct preposition**

- The need \_\_\_ the importance \_\_\_ forecasting is apparent \_\_\_ the key role it plays \_\_\_ planning.

**Write the jumbled sentences in the correct order**

- a) It was first founded by Xia Dynasty.
- b) And, it was only in 1949 that the republic of China came into its current form.

- c) China is one of the oldest countries in the world.
- d) It was in 221 BC that the Qin Dynasty unified most parts of present day China.

## **Expand the following abbreviations**

- a) UNO
- b) UPSC
- c) CBI
- d) ISRO

## **Write the one word substitutes for the following**

- Government of the people, by the people, for the people
- A book containing information on all branches of knowledge
- A place where fruit trees are grown
- One who looks on the bright side of the things

## **Cloze Test**

Decision making without considering the (a) like deciding to call 'heads' or 'tails' when a coin is (b)

- The greenhouse effect is the process by which radiation from a planet's atmosphere warms the planet's surface to a temperature above what it would be without its atmosphere. If a planet's atmosphere contains greenhousegases, the atmosphere will radiate energy in all directions. Part of this radiation is directed towards the surface, warming it.

Cont....



Earth's natural greenhouse effect is critical to supporting life. Human activities, primarily the burning of fossil fuels and clearing of forests, have intensified the natural greenhouse effect, causing global warming.

- a) What is greenhouse effect?
- b) What has led to global warming?

**Fill the correct articles in the blank**

may be very easy. What is particularly (c) is to make a good decision. A good (d) is based on a choice of calculated alternatives based on judgement.

(i) everything (ii) alternatives (iii) judgement (iv) decision

(i) thrown (ii) caught (iii) found (iv) tossed

(i) thoughtful (ii) opinionated (iii) difficult (iv) entertaining

(i) decision (ii) opinion (iii) judgement (iv) idea

## **Choose the correct analogy**

– Eat : Rice

i) Drink : Juice ii) Coffee : Tea iii) Pepper : Salt iv) Sit

:Stand

– Pianist : Piano

i) Listen : Music ii) Play : Instrument iii) Guitarist :  
Guitar iv) Compose : Songs

– Table : Carpenter

i) Grass : Florist ii) Medicine : Doctor iii) Dress : Tailor  
iv) Bridge : Teacher  
– Bread : Butter

i) Coffee : Tea ii) Idly : Chutney iii) Sugar : Salt  
iv) Sweet : Sour

**Fill in the blank with the missing  
tense forms**

Sl. No	Present	Past	Past Participle
a	know		
b		gave	
c	cut		
d			sought

**Fill in the blanks with the correct homonym**

1. The \_\_\_\_\_ is a man of \_\_\_\_\_ (principle, principal)
2. \_\_\_\_\_ students are given coaching every \_\_\_\_\_

(week, weak)

3. I \_\_\_ to \_\_\_ the flour (need, knead)
4. The \_\_\_ was honoured at \_\_\_ (night, knight)



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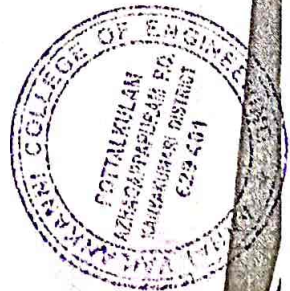
## CERTIFICATE of PARTICIPATION

This is to Certify that Ms. M. SELVA BHARATHI  
of 1<sup>st</sup> YEAR ECE has actively participated in the Program  
SKILL DEVELOPMENT - "DRAWING COMPETITION"  
held at Annai Vailankanni  
College Of Engineering on 28.11.2022.

Coordinator

HOD

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K.K.District Tamil Nadu - 629 401

## CERTIFICATE of PARTICIPATION

This is to Certify that Ms. R. RABEENA

of 1<sup>st</sup> YEAR CSE has actively participated in the Program  
SKILL DEVELOPMENT - QUIZ COMPETITION held at Annai Vailankanni

College Of Engineering on 28.11.2022.

*[Signature]*

Coordinator

*[Signature]*  
HOD

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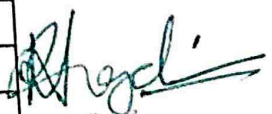


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## BRIDGE COURSE STUDENTS NAME LIST

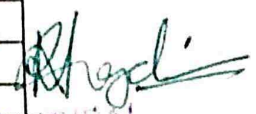
S.NO	STUDENTS NAME
1.	ABINASH E
2.	ABINESH N
3.	ANITHA A
4.	ANUSIYA M
5.	ARCHANA T
6.	ARI VENKATESH N.
7.	AROCKIA JOE A
8.	AROCKIA REJALDO R
9.	DEEPAK B
10.	DEVIKA V
11.	DONI D
12.	ESAKIAMMAL P
13.	EZHILAN M
14.	GANESH M
15.	JOSEWA A
16.	KALIYAMMAL M
17.	KARAN M
18.	KARTHEESAN S
19.	KRITHIKA B
20.	LIVIN RAJ P
21.	MADHAN RAJ M
22.	MADHUMITHA M
23.	MADHU PRIYA G
24.	MAHALAKSHMI T
25.	MARIA SARANYA J
26.	MATHAN P
27.	MUTHUMARI M
28.	POOJA T
29.	PUVANESWAR M
30.	RABEENA R
31.	RAMEENA R
32.	SAJIN S
33.	SANJAI I
34.	SANTHANA LAKSHMI M
35.	SATHYABAMA G
36.	SERINA DHAS S
37.	SHYLAM R
38.	SIVABHARATHI B

  
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4.	ANUSIYA M
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7.	AROCKIA JOE A
8.	AROCKIA REJALDO R
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11.	DONI D
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13.	EZHILAN M
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15.	JOSEWA A
16.	KALIYAMMAL M
17.	KARAN M
18.	KARTHEESAN S
19.	KRITHIKA B
20.	LIVIN RAJ P
21.	MADHAN RAJ M
22.	MADHUMITHA M
23.	MADHU PRIYA G
24.	MAHALAKSHMI T
25.	MARIA SARANYA J
26.	MATHAN P
27.	MUTHUMARI M
28.	POOJA T
29.	PUVANESWAR M
30.	RABEENA R
31.	RAMEENA R
32.	SAJIN S
33.	SANJAI I
34.	SANTHANA LAKSHMI M
35.	SATHYABAMA G
36.	SERINA DHAS S
37.	SHYLAM R
38.	SIVABHARATHI B

  
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52.	ELSON SANTRA E
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54.	GODLIN SHARON W
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69.	SUBRAMANIYAN K
70.	SUDALAI MANI N
71.	VENNILA M
72.	ABISHEK RAJAN M
73.	AKILESH M
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132.	SELVA SUTHA A
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136.	ANITHA.M
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