

2017-18

NOTICE

The department of chemistry is very happy to inform you that a Certificate Course in "Solid Waste management" will be started from NOV-2017 to DEC-2017.

The course is open to all the students of this college. Those who are interested to join in this course may contact Head of the department of chemistry for further details.


Principal.

Government Degree college, Razole.

Department of chemistry

30 Days Certificate Course On

"Solid Waste Management"

Syllabus

① Types of Solids

- ① Plastic waste
- ② E-waste
- ③ Domestic waste

② Transport and disposal of Solid waste

- ① collection
- ② Segregation
- ③ Reduce, Reuse and recycle collection System

③ Solid waste treatments

- ① Landfills
- ② composting
- ③ Biological process
- ④ Thermal process

④ Innovative methods in Solid waste management

GOVERNMENT DEGREE COLLEGE, RAZOLE.

DEPARTMENT OF CHEMISTRY

30 Days Certificate course

On

Solid Waste Management

List Of Students

S.No	Name of the Student	Signature of the Student
1	A.Aruna Kumari	A. Aruna Kumari
2	M.Mohana Durga	M. Mohana Durga
3	R.Durga Bhawani	R. Durga Bhawani
4	Ch.SimhadriArun	Ch. Simhadri Arun
5	G.Vijaya Kumar	G. Vijaya Kumar
6	P.Sai	P. Sai
7	M.Devi	M. Devi.
8	K.Bhuswarupa	K. Bhuswarupa
9	B.Nagamani	B. Nagamani
10	M.Srilatha	M. Srilatha
11	N.Geetha	N. Geetha
12	A.Rajesh	A. Rajesh
13	G.Raja	G. Raja
14	Y.Naveen	Y. Naveen

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MULTIPLE CHOISE QUESTION PAPER ON

SOLID WASTE MANAGEMENT

Time: 30 Min

Maximum Marks: 2x25=50M

1. The aerobic method of mechanical composting practiced is called.
 - a) Indore method
 - b) Nagpur method
 - c) Bangalore method
 - d) Bhopal method
2. Sludge bulking can be controlled by.
 - a) Chlorination
 - b) Coagulation
 - c) Aeration
 - d) Denitrificaiton
3. The disposal of the screen in done by.
 - a) Sedimentation
 - b) Flocculation
 - c) Filtration
 - d) Incineration
4. Solid waste treatment by pyrolysis refers to.
 - a) Treating with chemicals before heating.
 - b) No heating.
 - c) Heating in presence of air.
 - d) Heating in absence of air.
5. The Major constituent gases produced from a landfill site are.
 - a) Carbon dioxide and methane.
 - b) Ammonia and Hydrogen.
 - c) Carbon monoxide and nitrogen.
 - d) Hydrogen sulphide and oxygen.

6. An engineered facility for the disposal of Municipal solid waste is called.
 - a) Septic Tank.
 - b) Sanitary Landfills.
 - c) Dug wells.
 - d) Tandom Landfills.
7. How many main components are there in integrated waste management.
 - a) One
 - b) Two
 - c) Three
 - d) Four
8. Which of the following can be recycled many times?
 - a) Plastic.
 - b) Wood.
 - c) Organic materials.
 - d) Aluminum.
9. Why the recycled paper is banned for use in food containers?
 - a) Because it creates contamination.
 - b) Because it creates a lot of spaces.
 - c) Because paper can be used only one time.
 - d) Because paper is very thick and cannot cover the food containers.
10. What is the most expensive component of solid waste handling?
 - a) Collection
 - b) Storage.
 - c) Treatment.
 - d) Separation.
11. How does an organic Material decompose in the buried solid waste?
 - a) By the action of micro organisms.
 - b) By the action of Oxidation.
 - c) By the said particles.
 - d) By the flow of water.

12. The maximum C/N ratio in Municipal solid waste compost is.
- a) 10%
 - b) 20%
 - c) 30%
 - d) 40%
13. Why burning waste is not acceptable practice of solid waste management.
- a) Because it is very costly.
 - b) Because it requires modern technologies.
 - c) Because it cause several environmental issues.
 - d) Because it requires lot of space.
14. Which of the integrated waste management is reduced on the individual level?
- a) Source reduction.
 - b) Recycling.
 - c) Disposal.
 - d) Burning.
15. Why plastics are difficult to recycle.
- a) Because it is very hard material.
 - b) Because it is very adhesive in its nature.
 - c) Because of different types of polymer resins.
 - d) Because of different sizes of plastic.
16. Which of the following ones is the simplest and most common method used in the cities to Dump the wastes that are collected?
- a) River.
 - b) Ocean.
 - c) Landfill.
 - d) None of the abuse.
17. Bangalore and Indore process of composing are which of the following?
- a) Both anaerobic processes.
 - b) Both aerobic processes.
 - c) Anaerobic and aerobic process respectively.
 - d) Aerobic process and anaerobic process respectively.

18. Which of the following material is used as landfill sealants for the control of gas and leachate movement?

- a) Lime.
- b) Sand.
- c) Fly ash.
- d) Bentonite.

19. The best method of disposal of refuse to ensure complete destruction of pathogenic bacteria is by.

- a) Land disposal.
- b) Incineration.
- c) Pulverisation.
- d) Mechanical composting.

20. In solid waste management, waste utilized in achieved by.

- a) Recover, reclamation of reproduce.
- b) Recover, reclamation and recycling.
- c) Recover, recycling and reproduce.
- d) Recover, reproduce and recycling.

21. What is the advantage of waste to energy?

- a) It is economical.
- b) Recover useful energy.
- c) High degree of Sophistication is required.
- d) None of the above.

22. What is a Geo-net?

- a) A synthetic material used for drainage of liquids.
- b) A synthetic material used for drainage of Gases.
- c) A Ceramic material used for drainage of liquid.
- d) A fibrous material used for drainage of liquid.

23. Identify the wastes that are known on the Municipal solid waste from the following.

- a) Wood pieces.
- b) Plastic cans.
- c) Food wastes.
- d) All of the above.

24. What are the two main products of anaerobic digestion?

- a) Carbon monoxide and hydrogen.
- b) Methane and carbon dioxide.
- c) Methane and carbon monoxide.
- d) Hydrogen and carbon dioxide.

25. Which of the following is produced about from acetates in acetogenesis step in anaerobic digestion?

- a) Carbon monoxide.
- b) Charcoal.
- c) Carbon dioxide.
- d) Acetone.

Answers:

1. a
2. a
3. d
4. d
5. a
6. b
7. d
8. d
9. d
10. c
11. a
12. c
13. c
14. a
15. c
16. c
17. c
18. d
19. a
20. b
21. b
22. a or b
23. c
24. b
25. c

Sl. No.	Name of the Students	Max. Marks	Obtained Marks
1	A. Aruna Kumari	50	46
2	M. Mohana Durga	50	44
3	K. Durga Bhavani	50	46
4	Ch. Simhadri Azun	50	42
5	G. Vijaya Kumar	50	40
6	P. Sai	50	42
7	M. Dwi	50	46
8	V. Bhumsarupa	50	48
9	B. Nagamani	50	48
10	M. Silatha	50	44
11	N. Geetha	50	42
12	A. Rajesh	50	44
13	G. Raja	50	40
14	Y. Naveen	50	40

GOVERNMENT DEGREE COLLEGE

Razole, East Godavari District, A.P.

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Reaccredited by NAAC with grade "B"

Certificate Course on

"Solid Waste Management"

2017-18



CERTIFICATE

This is to certify that Prof./Dr./Sri./Smt./Kum

Professor/Reader/Lecturer/Student in

of

has successfully completed Certificate Course on **"Solid Waste Management"** Conducted by Dept. of Chemistry, Government Degree College, Razole held from November - 2017 to December 2017.

IQAC Co-ordinator

In-charge

Dept. of Chemistry

Principal