



Avinashilingam Institute for Home Science and Higher Education for Women
(Deemed to be University under Category 'A' by MHRD, Estd. u/s 3 of UGC Act 1956)
Re-accredited with 'A+' Grade by NAAC. Recognised by UGC Under Section 12B
Coimbatore - 641 043, Tamil Nadu, India

Bachelor's Degree Examination – June 2021
VI Semester

Class : III UG
Major : Interior Design and Resource Management

Time : 3 Hours
Max. Marks: 100

18BIDC24 Waste Management for Health and Wellbeing

Part A
Choose the Correct Answer

10 x 1 = 10

1. Expand e – waste. CO1 K1
a. electric waste b. electronic waste
c. energy waste d. end waste
2. Burning of solid waste is not recommended because CO3 K1
a. it require less space b. needs modern technology
c. requires special equipments d. causes environmental pollution
3. Waste water generated from household without faecal contamination is CO5 K2
a. rain water b. gray water
c. ground water d. surface water
4. _____ is the major cause for water pollution CO4 K2
a. animals b. plants
c. birds d. human activities
5. Human anatomical waste are disposed in _____ colour bag CO3 K1
a. yellow b. black
c. red d. blue
6. CSTR is CO5 K
a. continuous stirred tank reactor b. continuous sealed tank reactor
c. continuous selected tank reactor d. continuous sample tank reactor
7. Thermal decomposition of waste at elevated temperature is CO5 K1
a. oxidation b. pyrolysis
c. pelletisation d. gasification
8. Which one of the following is a biodegradable waste CO1 K1
a. polythene bag b. synthetic fibre
c. food waste d. paper
9. Nuclear medicine waste is an example of CO1 K1
a. E-waste b. radioactive waste
c. biomedical waste d. chemical waste
10. Environment Protection Act was enacted in the year CO4 K1
a.1983 b.1984
c.1985 d.1986

Part B
Answer ALL questions
Each answer should not exceed 400 words or two pages

5 x 6 = 30

- 11.a. What is E-waste? Write the impact of E-waste on the environment . CO1 K2
(or)
- 11.b. Write note on radioactive waste and give the methods of disposal of radioactive waste. CO1 K4
- 12.a. Explain the ways of effective utilization of gray water. CO4 K3
(or)
- 12.b. Describe the sources of ground water pollution. CO5 K1
- 13.a. Discuss the factors affecting safe disposal of solid wastes. CO2 K2
(or)
- 13.b. Write note on pyrolysis. CO5 K2
- 14.a. Differentiate between hazardous and non-hazardous waste with suitable examples. CO1 K4
(or)
- 14.b. Enumerate the various methods of treating bio-medical waste. CO3 K4
- 15.a. Summarize the principles of waste management. CO5 K5
(or)
- 15.b. Comment on recycling revenue of waste management. CO5 K5

Part C
Answer ALL questions
Each answer should not exceed 800 words or four pages

5 x 12 = 60

- 16.a. Define and classify wastes with suitable examples. CO1 K4
(or)
- 16.b. Enumerate the types of construction waste. Mention the materials that can be recycled. CO5 K1
- 17.a. Discuss the domestic waste water treatment by UASB with a neat diagram. CO2 K2
(or)
- 17.b. What is membrane filtration? Discuss its advantages and disadvantages. CO5 K2
- 18.a. Describe the design and operation of a sanitary landfill. CO5 K1
(or)
- 18.b. Explain the incineration process of waste management. Highlight the disadvantages. CO5 K3
- 19.a. Elaborate the sources of chemical waste and write the methods of controlling chemical waste. CO3 K4
(or)
- 19.b. What are inorganic pollutants? Narrate their effects on human health and the environment. CO5
- 20.a. Briefly explain the 9 R's concept. CO5 K3
(or)
- 20.b. Discuss the concept of waste management. Comment on waste generation in team of a ' life cycle approach'. CO4 K4
