

.....
BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VIII CHEMICAL : WINTER- 2022
SUBJECT : HAZARDOUS WASTE MANAGEMENT

Day : Tuesday

Time : 02:30 PM-05:30 PM

Date : 29-11-2022

W-13597-2022

Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat sketch **WHEREVER** necessary.

Q.1 What is biomedical waste? What are its hazards? Which are the rules and regulations handling and disposal of biomedical waste? [10]

OR

Why battery management is important? Which are rules and regulations for management and handling of batteries? [10]

Q.2 What is compatibility of waste? Why the compatibility analysis is important in hazardous waste management? [10]

OR

What is flammability of chemicals? What is the importance of flammability analysis in waste management? [10]

Q.3 Which are the sources of radioactive waste? What are its measures and health effects? [10]

OR

Which are the types of radioactive waste? What are the methods of the disposal of these radioactive wastes? [10]

Q.4 What is combustion? How combustion and chemical oxidation is used in solid hazardous waste management? [10]

OR

What is solid vapor extraction? How it is used in solid hazardous waste management? [10]

Q.5 What is in-situ remediation? Which are its principles? How it can be used in biological treatment of solid hazardous waste? [10]

OR

How inhibition and co-metabolism can be used in the treatment and disposal of solid hazardous waste? [10]

Q.6 What is leachate? What are its effects and hazardous? How it is removed to avoid ground water contamination? [10]

OR

What is the need for landfill covers? Which are the factors to be considered during design of landfill covers? [10]