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**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

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**N.B.:**

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

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