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

Day : Tuesday

Time : 02:30 PM-05:30 PM

Date : 29-11-2022

**W-13643-2022**

Max. Marks : 60

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
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**Q.1** What is the nature of MSW? Classify and explain the solid waste based on sources. **(10)**

**OR**

**Q.1** What is the interrelationship of the functional elements in a solid waste management system? Explain. **(10)**

**Q.2** What are the different collection systems based on mode of operation? Explain. **(10)**

**OR**

**Q.2** Explain various storage provisions for different types of waste. **(10)**

**Q.3** Explain transportation of bio medical waste and construction waste. **(10)**

**OR**

**Q.3** What is the need for transfer operation? Also explain the functions of transfer stations. **(10)**

**Q.4** What are the various stages at which sorting can take place in the waste stream? **(10)**

**OR**

**Q.4** What are the major recoverable materials present in the MSW? Explain present scenario. **(10)**

**Q.5** What are the environmental impacts of a landfill site? Suggest measures to minimize these impacts. **(10)**

**OR**

**Q.5** How does composting work? What are the factors affecting composting process? Explain. **(10)**

**Q.6** Explain the process of pyrolysis. What are its benefits? **(10)**

**OR**

**Q.6** Write a note on: Refuse Derived Fuel and Hydro pulping. **(10)**

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