

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)

B.Tech.Sem - VIII CHEMICAL :SUMMER- 2022

SUBJECT : HAZARDOUS WASTE MANAGEMENT

Day : Wednesday

Date : 22-06-2022

S-13597-2022

Time : 02:30 PM-05:30 PM

Max. Marks : 60

N.B.:

- 1) All Questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Both section should be written in **SAME** answer book.

Q.1 What is need for plastic recycle? What are the hazards associated with the same? What are the regulations for the same? **(10)**

OR

What is hazardous waste? Which are the rules and regulations for its management? Explain their importance? **(10)**

Q.2 Which are the characteristics of waste? How they are related to the health effects? **(10)**

OR

- a) What is compatibility of waste? Why it is important? **(05)**
- b) What is fate of chemical? What is its significance? **(05)**

Q.3 What are characteristics and health effects for waste generated from nuclear power plant? Which are their disposal methods? **(10)**

OR

Which are the wastes generated during nuclear fuel production? What are their characteristics and health effects? **(10)**

Q.4 What is stabilization and solidification of hazardous waste? How it is carried out? **(10)**

OR

How ground water contamination happens? What are its health hazards and method of remediation? **(10)**

Q.5 Which are the principles of biodegradation of toxic waste? What is their significance? **(10)**

OR

How slurry phase bioreactor works? How it is used in hazardous waste management? **(10)**

Q.6 Which are the important factors needed to be considered for land fill design for solid hazardous waste? **(10)**

OR

What is leachate? What are the hazards associated with leachate? How leachate collection and removal is done? **(10)**

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