

Reg. No. :

**Question Paper Code : 51081**

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Fifth Semester

Computer Science and Engineering

OMD 552 — HOSPITAL WASTE MANAGEMENT

(Common to : Computer and Communication Engineering/Electronics and Communication Engineering/Electronics and Telecommunication Engineering/ Environmental Engineering/ Petrochemical Engineering/ Artificial Intelligence and Data Science/ Bio Technology/Biotechnology and Biochemical Engineering/ Chemical Engineering/ Chemical and Electrochemical Engineering/Computer Science and Business Systems/Food Technology/Information Technology/ Petrochemical Technology/Petroleum Engineering/Pharmaceutical Technology)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Mention the types of hazard analysis.
2. State the accident causation theory.
3. What are the four major types of medical waste?
4. Give the color coding for disposal of biomedical waste.
5. How hazardous materials are treated in a hospital?
6. List the gases that are used in hospitals.
7. Mention the types of safety signs.
8. How can slip and fall be prevented?
9. Define: Disinfection.
10. What are healthcare associated infections?

PART B — (5 × 13 = 65 marks)

11. (a) Explain the concept of hierarchies in controlling hazard in hazard control and correction.

Or

- (b) Elaborately discuss about the categories of accident analysis.

12. (a) Explain the different sources of healthcare wastes and how hospitals handle them.

Or

- (b) Demonstrate the disposal of biomedical waste, discuss its merits and demerits.

13. (a) Discuss in detail about the DOT Hazardous Material Regulations.

Or

- (b) Enumerate the six major parts of OSHA Hazard Communication Standard.

14. (a) Explain in detail about fleet and the essential elements of a fleet safety program. Also discuss about the vehicle safety.

Or

- (b) Elucidate tool safety with suitable examples.

15. (a) Discuss in detail about OSHA Bloodborne Pathogens Standard.

Or

- (b) How do antiseptics, disinfectants and sterilization agents differ? Explain in detail.

PART C — (1 × 15 = 15 marks)

16. (a) What are healthcare opportunistic infections? How can it be prevented?

Or

- (b) Point out why electrical safety is important in workplace. Explain about it in detail. Also list the electrical safety rule.