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Reg. No. :

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Question Paper Code : 90460

B.E./B.Tech. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019

Fifth Semester

Chemical Engineering

OMD552 – HOSPITAL WASTE MANAGEMENT

(Chemical and Electrochemical Engineering/Food Technology/B.Tech.
Information Technology/Pharmaceutical Technology/Computer Science and
Engineering/Computer and Communication Engineering/Electronics and
Communication Engineering/Electronics and Telecommunication Engineering/
Environmental Engineering/Petrochemical Engineering/
Bio Technology/Petrochemical Technology/Petroleum Engineering)
(Regulations 2017)

Time : Three Hours

Maximum : 100 Marks

Answer ALL questions

PART – A

(10×2=20 Marks)

1. List the three key elements of hazard control.
2. Mention the fundamental elements of hazard analysis.
3. State the need for disposal of biomedical waste.
4. Indicate the biomedical waste-minimization techniques.
5. Name at least five OSHA Hazard Communication standards.
6. Give the characteristics of Hazardous Substances.
7. Define static coefficient of friction.
8. List and define four major color codes for safety signs.
9. Name the safety practices for waste management.
10. Write the difference between an intermediate-level and a low-level disinfectant.



PART - B

(5×13=65 Marks)

11. a) List and explain the five categories of healthcare hazards in detail.

(OR)

b) List and explain the five steps in the job hazard analysis process.

12. a) Explain the precautions needed to handle the biomedical waste and various consequences arising out of non compliance in health care delivery.

(OR)

b) Describe the various treatment and disposal methods for medical waste.

13. a) Explain the six elements that must be addressed in an OSHA-required respirator program. Give the classification of respirators and their hazards.

(OR)

b) Explain in detail the effects of various hazardous medical gases with their exposure limits.

14. a) Explain any five measures that can help to prevent slips and trips.

(OR)

b) Describe in detail about the different types of tools used by the employees, associated hazards and safety precautions to prevent accidents.

15. a) Elaborate on OSHA bloodborne pathogens standard requirements for employers with workers exposed to blood or other potentially infectious materials.

(OR)

b) Describe the best methods of managing the infection control process.

PART - C

(1×15=15 Marks)

16. a) Describe the different categories of Bio-Medical Wastes. Explain in detail about the disposal of biomedical waste and state its merits and demerits.

(OR)

b) Describe occupational health and safety programmes for the hospital workers.
