

**CERTIFICATE PROGRAMME  
EXAMINATION — JULY 2024**

**Chemical Laboratory Safety Management**

**LABORATORY SAFETY GUIDELINES AND  
RULES – I**

**Time : 3 hours**

**Maximum marks : 70**

**PART A — (3 × 3 = 9 marks)**

**Answer any THREE questions out of Five questions in  
100 words.**

**All questions carry equal marks.**

1. What is chemical hygiene?
2. What are flammable materials? Give example.
3. What are dark room chemical? Give example.
4. How the laboratory Trash to be disposed?
5. What is emergency shower?

PART B — ( $3 \times 7 = 21$  marks)

Answer any THREE questions out of Five questions in  
200 words.

All questions carry equal marks.

6. Discuss about chemical and non-chemical hazards.
7. Discuss about MSDSs/SDs.
8. Discuss about handling cryogenic liquids and dry ice.
9. Discuss about solid waste recycling.
10. Discuss about role of ventilation in laboratory.

PART C — ( $4 \times 10 = 40$  marks)

Answer any FOUR questions out of Seven questions in  
500 words.

All questions carry equal marks.

11. Discuss in detail about responsibilities of administrative structure in laboratory safety.
12. Discuss in detail about chemical procurement rules and procedure to chemical labelling.
13. Discuss about corrosive chemicals.

14. Discuss about chemical waste disposal.
  15. Discuss in detail about fire safety.
  16. Discuss about decontamination of equipment for disposal.
  17. Discuss about waste accumulation rules.
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**CERTIFICATE PROGRAMME  
EXAMINATION – JULY 2024**

**Chemical Laboratory Safety Management**

**LABORATORY SAFETY GUIDELINES AND  
RULES – II**

Time : 3 hours

Maximum marks : 70

**SECTION A — (3 × 3 = 9 marks)**

Answer any **THREE** questions out of Five questions  
in 100 words

All questions carry equal marks.

1. What is medical surveillance?
2. What is PPE? Give an example situation for utilizing PPE.
3. What are accident reports?
4. List the first aid for laboratory accidents.
5. What is laboratory design?

SECTION B — ( $3 \times 7 = 21$  marks)

Answer any THREE questions out of Five questions  
in 200 words.

All questions carry equal marks.

6. Discuss about protective equipment.
7. Discuss about special precautions for animal use.
8. Discuss about centralized records.
9. Discuss about Gas Leaks.
10. Discuss about checklist for laboratory move outs.

SECTION C — ( $4 \times 10 = 40$  marks)

Answer any FOUR questions out of Seven questions  
in 500 words.

All questions carry equal marks.

11. Discuss in detail about environmental monitoring.
12. Discuss in detail about special handling procedures and storage requirements.
13. Discuss about obsolete exposure information.
14. Discuss about explosions and spills.

15. Discuss in detail about transporting and storing hazardous materials.
  16. Discuss in detail about technical and economic analysis of moving equipment.
  17. Discuss the completed laboratory precautions at the time of earthquake.
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