K25FY3038 Pages: 2 Reg No:.....
Name:.....

Third Semester FYUGP Degree (Reg) Examination November 2025

KU3VACCHE101 - SAFE LABORATORY PRACTICES IN CHEMISTRY

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. What are the health effects of hazardous Substances?
2. Mention any two physical hazards in laboratory
3. What does a skull and crossbones pictogram signify?
4. What are the common mistakes in chemical handling?
5. Describe the proper personal protective equipment (PPE) required when handling mercury.
6. Why is record-keeping important while handling restricted chemicals?
7. What are the precautions to be taken in case of inhalation of poisonous gas
8. What is laboratory safety manual?

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Explain the clean up procedure for the accidental spillage of hazardous substance like mercury
10. Describe the specific handling procedures for carbon tetrachloride to minimize health risks
11. Explain the process of obtaining prior approval for restricted chemicals and the typical documentation required
12. How would you evaluate the effectiveness of emergency showers and eyewash stations in a chemical lab?
13. How do OSHA guidelines address the use and maintenance of personal protective equipment (PPE)?
14. How do EPA regulations impact the handling and disposal of hazardous waste?

Section C

Answer any 1 questions. Each carry 14 marks.

15. a)Discuss the effect of carcinogens on human health with examples
    b)Explain the general procedure to be followed while working with toxic substances

16. a)Describe the MSDS of any commonly used laboratory chemical
    b)Discuss the different types of laboratory waste and explain how improper disposal can impact health, safety, and the environment.

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