

2203000206030074
EXAMINATION SEPTEMBER 2024 (ATKT EXAM)
BACHELOR OF SCIENCE (SIXTH SEMESTER)
GE-4: BIOSAFETY IN MICROBIOLOGY LABORATORY -
LEVEL 3

[Time: As Per Schedule]

[Max. Marks: 50]

<p>Instructions:</p> <p>1. Fill up strictly the following details on your answer book</p> <p>a. Name of the Examination: BACHELOR OF SCIENCE (SIXTH SEMESTER)</p> <p>b. Name of the Subject: GE-4: BIOSAFETY IN MICROBIOLOGY LABORATORY</p> <p>c. Subject Code No: 2203000206030074</p> <p>2. Sketch neat and labelled diagram wherever necessary.</p> <p>3. Figures to the right indicate full marks of the question.</p> <p>4. All questions are compulsory.</p>

Seat No:

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Student's Signature

Q.1 Give specific answers: 8

- a. State the use of the types of biological safety cabinets.
- b. Define: Decontamination
- c. What are the duties of biosafety officer (any two).
- d. Enlist the essential biosafety equipment required for biosafety level-3 laboratory.
- e. Biosafety level 2 is designed to work with which group of organisms?
- f. Give the full form of CDC.
- g. Write down any two objectives of biosafety training programme.
- h. Which type of laboratory waste never be incinerated?

Q.2 Explain/ Comment on any two of the following: 14

- a. Comment: biomedical waste is extremely hazardous type of waste.
- b. Write a note on code of practice in biosafety level 3.
- c. Discuss microbial hazards in the laboratory.

Q.3 Discuss any two of the following: 14

- a. Discuss the responsibilities of the employer and the employee for safety in a laboratory.
- b. Enlist the components of class III BSC. Also describe the working of the same.

- c. What is microbial risk assessment? Write a detail note on factors considered for risk assessment.

Q.4 Write detailed notes on any two of the following:

14

- a. Enlist the types of incinerators and explain disposal of biomedical waste by incineration.
- b. What is biosafety training programme? Describe the elements of training programme.
- c. Discuss in detail about air connections in Biosafety Cabinets.
