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**RAN-2203000206030074**

**B. Sc. Microbiology (Sem. VI) Examination March - 2025**

**GE - 4 : Biosafety in Microbiology Laboratory**

**Time: 2 Hours ]**

**[ Total Marks: 50**

**સૂચના : / Instructions**

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.  
**Fill up strictly the details of signs on your answer book**

Name of the Examination:

**B. Sc. Microbiology (Sem. VI)**

Name of the Subject :

**GE - 4 : Biosafety in Microbiology Laboratory**

Subject Code No.: **2203000206030074**

Seat No.:

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Student's Signature

- (2) Figures to the right indicate full marks of the question.  
(3) Draw neat and labelled diagrams whenever necessary.

**Q.1. Give specific answers.**

**08**

- State the common cause of the cuts and pricks in the laboratory.
- Write down any two objectives of biosafety training programmes.
- Define: containment.
- Which colour coding system will be used to segregate the laboratory waste?
- Give the full form of CDC and NIH.
- Enlist the critical elements of the training programme.
- State non-incineration technology for biowaste.
- What is the primary purpose of Biosafety Levels (BSLs) in laboratories?

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

**14**

- Comment on the code of practice in biosafety level 2.
- Disposal of biomedical waste without decontamination will be dangerous for the environment.
- Justify: biosafety programmes are very important for infectious laboratories.

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**[ 1 ]**

**[ P.T.O. ]**

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**Q-3. Discuss any two of the following: 14**

- a. Discuss the detailed concept of Biosafety.
- b. Describe the purpose of Biosafety Levels (BSLs) and their role in laboratory safety.
- c. Which type of disinfectant is used in BSC? Explain in detail about the decontamination of BSC.

**Q-4. Write detailed notes on any two of the following: 14**

- a. Describe the four microbial risk groups with their importance.
  - b. Write a short note on: Disposal of laboratory waste.
  - c. Explain the composition of the biosafety committee & role of members.
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