

RAN-2203000206030074**T.Y.B.Sc. (Semester-VI) Examination March - 2026****GE-4 : Biosafety in Microbiology Laboratory (Old)****સૂચના : / Instructions**

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.
- (2) Figures to the right indicate full marks of the question.
- (3) Draw neat and labelled diagrams whenever necessary.

Seat No.:

Student's Signature

- Q-1. Give specific answers. 08**
- 1) What does RG mean in biosafety classification?
 - 2) What is laboratory-acquired infection (LAI)?
 - 3) Define: Biosecurity
 - 4) What is full form of HEPA?
 - 5) State two roles of the management in the biosafety programme.
 - 6) What is preventive maintenance?
 - 7) Name one chemical disinfectant used in laboratories.
 - 8) What is decontamination?
- Q-2. Answer in Brief on any two of the following: 14**
- 1) Discuss standard precautions and safe handling of infectious materials in laboratories.
 - 2) Explain common causes of fire hazards and preventive measures of it.
 - 3) Describe primary and secondary containment measures.
- Q-3. Answer in Brief on any two of the following: 14**
- 1) Explain the structure and functions of a biosafety committee in research or diagnostic laboratory.
 - 2) Discuss the criteria for selection and proper use of biological safety cabinets in microbiology.
 - 3) Describe the working principle, advantages, and limitations of incineration in biomedical waste disposal.
- Q-4. Answer in Brief on any two of the following :- 14**
- 1) Explain the role and responsibilities of a biosafety officer in maintaining laboratory biosafety.
 - 2) Need and importance of biosafety training programmes for laboratory personnel.
 - 3) Discuss the regulatory guidelines and legal requirements for biomedical waste management in laboratories.