



# RAN-1032

## T. Y. B. Sc. SEM V (Microbiology) Examination

March / April - 2019

### GE : Microbiology Laboratory Hazards & Precautions (New)

Time: 2 Hours ]

[ Total Marks: 50

#### सूचना : / Instructions

नीचे दृशविले निशानीवाणी विगतो उत्तरवही पर अवश्य लपची.  
Fill up strictly the details of signs on your answer book

Name of the Examination:

T.Y.B. Sc. Microbiology (Sem V)

Name of the Subject :

GE: Microbiology Laboratory Hazards & Precautions (New)

Subject Code No.:

1

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Seat No.:

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Student's Signature

1. Figures to the right indicate full marks of the question.
2. Draw neat and labeled diagrams whenever necessary.

**Q.1 Give specific answers.**

**(12)**

- a) Enlist any four parameters that helps in microbiological risk assessment
- b) When do we need to use Biosafety cabinet (Give any two examples)
- c) How dispersal of infectious materials can be avoided (Specify with two examples)
- d) What should be the strategies for maintenance of health and safety of staff?
- e) Enlist the equipments (any four) that are required to deal with chemical spills
- f) Give any two examples of fire extinguishers with its specific use.

**Q.2** Answer any two of the following. (12)

- a) Explain the equipments that are considered as essential biosafety equipments.
- b) Discuss: Toxic effects of laboratory chemicals.
- c) Explain the check list of safety equipment designs that help to minimize the laboratory hazards

**Q.3** Answer any two of the following. (16)

- a) Describe how selection of a biological safety cabinet should be done by the type of protection needed. Explain Class II biological safety cabinet
- b) Enlist the various chemicals used in the laboratory and describe the necessary precautions to avoid hazards
- c) What are the sources of infections in laboratory? Explain how to eliminate them.

**Q.4** Write short notes on any two of the following. (10)

- a) Safety Precautions with blood and Body fluids
  - b) Corrosive and Radioactive Chemicals as Hazardous chemicals
  - c) Significance of Laboratory First Aid
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