

M.Sc. (Zoology) Semester - 2 (CBCS) Examination
March/April – 2024 (As Per Syllabus Year-2023)
Biotechnology & Immunology (Core)

Time: 2:30 Hours**Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q. 1 Answer the following: (Any Seven) (14)
1. What is callus Culture?
 2. Explain the importance of ELISA.
 3. Give the two examples of restriction endonuclease.
 4. Enlist the media used for PTC.
 5. Draw the labelled structure of immunoglobulin.
 6. Explain TRISP.
 7. Explain function of ampR gene.
 8. Write about geographical indication and explain its importance..
- Q. 2 Answer the following: (Any Two) (14)
1. Write note on Bioremediation.
 2. Explain the immobilization of enzymes and cells.
 3. Write note on pBR322 and define its feature and advantage.
- Q. 3 Answer the following: (Any Two) (14)
1. Explain the basic steps plant tissue culture.
 2. Discuss the basic principles and techniques of animal tissue culture.
 3. Write a note on principles and techniques of PTC.
- Q. 4 Answer the following: (Any Two) (14)
1. Explain hypersensitivity.
 2. Write a note on Monoclonal antibody.
 3. Explain agglutination.
- Q. 5 Answer the following: (Any Two) (14)
1. Write note on copyright.
 2. Write a short note on patent application and its types.
 3. Explain the fundamentals of patent.
