

**BT 1.2**

**I Semester M.Sc. in Biotechnology Examination, September 2016**  
**BIOCHEMICAL TECHNIQUES**

Time : 3 Hours

Max. Marks : 80

**Instruction :** Answer *all* the Sections.

**SECTION – A**

Answer **any four** questions from the following.

**(4×5=20)**

1. Mutation and cancer.
2. Beer-Lambert's law.
3. Oxygen electrode.
4. Pulsed field electrophoresis.
5. Sedverg's constant.
6. Autoradiography.

**SECTION – B**

Answer **any three** questions from the following.

**(3×10=30)**

7. Determination of molecular weight of a protein by ultracentrifugation.
8. Isolation of mitochondria.
9. UV-Visible spectrophotometer and its application.
10. Ion exchange chromatography.
11. GM counters.

**SECTION – C**

Answer **any two** questions from the following.

**(2×15=30)**

12. Explain the role of animal models in biological research.
  13. Discuss the applications of radioisotopes and their demerits.
  14. Give an account of SDS-PAGE and its applications.
  15. Write a note on :
    - a) Chromatofocussing
    - b) Zymography
    - c) Fluorescence staining.
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