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V SEMESTER B.Sc. EXAMINATION – MARCH/APRIL 2022

SCHEME: SEMESTER- CBCS

BIOTECHNOLOGY (SEC)

069

Biophysics and Biochemical Techniques

Time: 02 Hours

Max Marks: 40

Instructions to Candidates: Write neat and labeled diagram wherever necessary.

PART- A

- I. Answer any **THREE** questions. 3x10=30
1. Give an account on colligative properties of a solution.
  2. Write short notes on membrane filtration and dialysis.
  3. Explain the principle and applications of bright field microscopy.
  4. Explain the principle and applications of UV-Vis spectroscopy.
  5. Describe electrostatic and hydrophobic interactions.

PART- B

- II. Answer any **FIVE** questions. 2x5=10
1. What are covalent bonds?
  2. What is paper chromatography?
  3. Define reaction kinetics.
  4. Write the principle of SDS-PAGE.
  5. Give two uses of NMR.
  6. What is resolving power of a microscope?
  7. What is isoelectric focusing?

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