

QP Code: 212020

Reg. No.....

**Second Year B.Sc Medical Biochemistry Degree Supplementary
Examinations September 2024**

Paper VII – Analytical Methods and Instrumentation

(2016 Scheme)

Time: 3 hours

Max: Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Long Essays: (2x15=30)

1. Define Chromatography. Write in detail about principle, technique and application of ion exchange chromatography.
2. Describe different methods and applications of ELISA

Short Essays: (2x10=20)

3. Explain the principle, technique and applications of immuno electrophoresis.
4. Explain the types of centrifuges and their applications.

Short Answers (6x5=30)

5. Use of radioactive isotopes in biochemistry and medicine.
6. Thin Layer Chromatography.
7. Atomic absorption spectrophotometer.
8. Agarose Gel Electrophoresis.
9. Radiation protection and disposal of radioactive wastes.
10. Isopycnic centrifugation

Comment on (10x2=20)

11. Partition coefficient.
12. Different types of radiations
13. Role of APS in PAGE
14. Adsorption chromatography
15. Radioisotopes.
16. Turbidimetry.
17. Centrifugal force.
18. Properties of light.
19. Monochromators
20. Fluorimeter.
