

QP Code: 212020

Reg. No.....

**Second Year B.Sc Medical Biochemistry Degree Supplementary
Examinations November 2021**

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. Name the various techniques employed in modern biochemistry laboratories. Discuss the different types of electrophoresis.
2. What is chromatography. Describe in detail the different types of chromatography.

Short Essays:

(2x10=20)

3. Discuss the principle and application of flame photometry.
4. What is Beer-Lamberts law, mention the properties of electromagnetic spectrum, and how absorption and transmission of light occurs.

Short Answer

(6x5=30)

5. Flurimetry
6. Isoelectric focussing
7. Density gradient centrifugation
8. Application of RIA
9. pH meter
10. Application of ELISA

Comment on

(10x2=20)

11. GM Counter
12. Labelled probes
13. Use of Radioactive Isotopes
14. Determination of molecular weight
15. Disposal of Radioactive waste
16. Colorimetry
17. Zone electrophoresis
18. Buffer preparation
19. Filters
20. Partition Coefficient
