

QP Code: 212020

Reg. No.....

**Second Year B.Sc Medical Biochemistry Degree
Regular/Supplementary Examinations October 2019**

Paper VII – Analytical Methods and Instrumentation

(2016 Scheme)

Time: 3 hours

Max: Marks: 100

- **Answer all the questions**
- **Draw diagrams wherever necessary**

Long Essays:

(2x15=30)

1. Describe the principle, technique and application of HPLC.
2. Describe the principle, technique and application of pH meter.

Short Essays:

(2x10=20)

3. Nephelometry.
4. Cell fractionation by differential centrifugation.

Short Answer

(6x5=30)

5. RIA.
6. Gas liquid chromatography
7. Gel electrophoresis
8. Flame photometer
9. Principles of colorimetry
10. Determination of molecular weight using centrifugation

Comment on

(10x2=20)

11. Isotopes
12. Buffers used in electrophoresis
13. R_f value
14. Solubilizers
15. Tracking dyes
16. Ion exchange chromatography
17. Types of centrifuges
18. Immunoelectrophoresis
19. Turbidimetry
20. Thin layer chromatography
