

QP Code: 212020

Reg. No.....

**Second Year B.Sc Medical Biochemistry Degree Regular/Supplementary
Examinations May 2022**

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, instrumentation and application of gas liquid chromatography.
2. Define Electrophoresis. Write in detail about principle, technique, application of Gel Electrophoresis

Short Essays:

(2x10=20)

3. Describe the application of radioisotopes in diagnosis, treatment and in research.
4. Describe Radio Immuno Assay (RIA). Add a note of its applications.

Short Answers

(6x5=30)

5. Nephelometry.
6. Atomic Absorption spectrophotometry.
7. Spectrophotometer.
8. Ultracentrifugation.
9. Elisa, its types and applications.
10. Isoelectric Focussing

Comment on

(10x2=20)

11. Beer-Lambert's law.
12. Filters in colorimeter.
13. RCF
14. Principle of pH meter.
15. Disposal of radioactive wastes.
16. Applications of centrifugation.
17. Turbidimetry.
18. Flame photometer.
19. Scintillation counter.
20. Different principles of chromatography.
