

QP Code: 212020

Reg. No.....

**Second Year B.Sc Medical Biochemistry Degree
Regular/Supplementary Examinations July 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. Explain the principle and applications of spectrofluorimetry.
2. Discuss the principle and applications of spectrophotometry. Describe the atomic absorption spectrophotometer

Short Essays:

(2x10=20)

3. Write the features of different types of radiation, and discuss the use of radioactive isotopes in medicine.
4. What is chromatography. Describe in detail about thin layer chromatography.

Short Answer

(6x5=30)

5. GM counter
6. Nephelometry
7. Radiation hazards
8. Applications of Radio Immuno Assay
9. Density gradient centrifugation
10. Substrates and enzymes used in ELISA

Comment on

(10x2=20)

11. PH Meter
12. Chemiluminescence
13. Ion selective electrode
14. HPLC
15. Relative centrifugal force
16. Solubilizers
17. Colorimeter
18. Labeled probes
19. Cell fractionation
20. Iso Electric focusing
