Second Year B.Sc. Medical Biochemistry Supplementary Examinations April 2017

ANALYTICAL METHODS AND INSTRUMENTATION

Time: 3 Hours

Essay

- Answer all the questions
- Draw diagrams wherever necessary
- 1. What is ultra-centrifugation. Sub-cellular fractionation by differential centrifugation and how to determine the molecular weight using centrifugation.
- 2. Isotopes definition, types, measurement, uses of radioactive isotopes in biochemistry and medicine. Add a note on disposal of radioactive wastes.

Short Essay

- 3. Principle, method and applications of ion exchange chromatography.
- 4. Describe different methods and applications of ELISA.

Short Notes

- 5. Flame photometer
- 6. Applications of gel electrophoresis.
- 7. Nephelometry and turbidimetry.
- 8. Immunoelectrophoresis.

Answer Briefly

- 9. Solubilizers
- 10.rpm
- 11. Labelled probes
- 12. Biological effects of radiation
- 13. Types of rotors

Total Marks: 80

(2x15=30)

(2x10=20)

(4x5=20)

(5x2=10)

Reg. No.....

QP Code: 202020