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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (M.L.T) Degree Examination - APRIL 2015

Time: Three Hours Max. Marks: 80 Marks

BIOCHEMISTRY – II

Q.P. CODE: 3156

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

- Describe the chemistry, sources, RDA, functions and deficiency manifestations of "Vitamin C".
- What are "clearance tests"? Give a detailed account of the procedure for carrying out the endogenous creatinine clearance test. Add a note on the biological reference intervals and the clinical significance.
- Explain the principle of Spectrophotometry. Draw a schematic diagram of a single beam spectrophotometer. Add a note on standardization of Spectrophotometer.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

- Types of water in a laboratory. Discuss the NCCLS specification for laboratory water.
- What are coenzymes? Discuss the salient features of coenzymes. Add a note on metalloenzymes.
- Explain the preparation of a calibration curve citing an example. Add a note on the linearity of the method based on the calibration curve.
- Discuss Gouty arthritis in detail. Give the principle for the estimation of uric acid.
- 8. Explain the tissue distribution and functions of chondroitin sulfate and heparin.
- 9. Explain the tertiary structures of proteins citing an example.
- Urea cycle and energetics.
- Procedure for ammonium chloride loading test and interpretation.

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

- Anaplerotic role of TCA cycle.
- Types of RNA
- Albuminometer and Urinometer.
- Preparation of protein free filtrate for quantitative estimations-Glucose by Reductometric method and Creatinine by Jaffe's method in blood.
- What is meant by Timed sample collection? Explain with one example each under serum and urine.
- Name three glycogen storage disorders and the enzyme associate with it.
- Discuss different sample collection tubes used during phlebotomy. Add a note on the order of draw during multiple specimen collection.
- 19. Functions of DNA
- 20. Classification of proteins based on nutritional value.
- Inhibitors of glycolysis.
- 22. Microalbuminuria.
- Riboflavin

