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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (M.L.T) Degree Examination - SEP-2016

Time: Three Hours Max. Marks: 80 Marks
BIOCHEMISTRY – III (RS-2)

Q.P. CODE: 2901

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

- Classify and enumerate functions of liver. Write briefly about liver function tests.
- Define an acid, base, metabolic acidosis, metabolic alkalosis, respiratory acidosis and respiratory alkalosis. Explain the renal regulation of acid base balance.
- Describe the sources, daily requirement and normal levels of phosphate. Enumerate any five functions of phosphate. Explain briefly how phosphate level is regulated.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

- Enumerate any three functions each of iron and calcium.
- 5. Write the procedure and utility of RIA.
- 6. Enumerate any three causes of metabolic acidosis and respiratory acidosis.
- Enumerate any three cardiac biomarkers. Explain the chronobiogram and clinical utility of CK-MB.
- 8. Enumerate any six immuno assay techniques. Explain the principle of Electrochemiluminescence.
- 9. Explain briefly how to manually analyse renal stones.
- 10. Write the principle and applications of radio immuno assay.
- 11. Write the normal level of potassium. Write any two causes of Hypokalemia and Hyperkalemia.

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

- Enumerate the post transcriptional modifications.
- Enumerate the post translational modifications.
- What is standard deviation? Explain with suitable example.
- Enumerate different forms and location of LDH.
- 16. Enumerate the diagnostically important enzymes in pancreatic disease.
- Enumerate any six Westgard rules.
- 18. Enumerate the biologically important products synthesized from Glycine.
- 19. Define and write the normal levels of anion gap.
- 20. What is the enzyme defect seen in Galactosemia and essential fructosuria.
- 21. Define jaundice. Write the normal value of total, conjugated and unconjugate bilirubin.
- Write different types of Vanden Bergh reaction and its utility.
- Principle of ELISA

