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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 (RS - 2) Q.P. CODE: 1231

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

- Write briefly the reaction steps in glycolysis. Explain the energetics of glycolysis.
- Explain beta-oxidation of fatty acid. Write the energetics of oxidation of Palmitic acid.
- Describe the sources, daily requirement and normal levels of vitamin B12. Enumerate any three functions of Vitamin B12.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

- Explain glycogen synthesis.
- 5. What is atherosclerosis? What are the risk factors of atherosclerosis?
- 6. Write the principle, instrumentation and application of atomic absorption spectrophotometry.
- Nutritional importance of proteins.
- Define adsorption, viscosity and surface tension.
- Explain the mechanism of action of enzyme.
- Write the principles and application of serum electrophoresis.
- Write the urea cycle.

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

- Enumerate any three glycogen storage disorders.
- Enumerate any six water soluble vitamins and their chemical name.
- 14. What is Km? What is the significance of Km?
- 15. Write any three functions of Riboflavin.
- 16. What is enzyme specificity? Enumerate any three types of specificity with suitable examples.
- Define BMR.
- Give three examples of coenzymes.
- 19. Define calorific value of food, and give the calorific value of carbohydrate proteins and lipids.
- 20. What are coenzyme form of niacin and thiamine?
- Enumerate any three functions of dietary fibres.
- 22. Which test is used for the detection of ketone bodies and glucose in urine?
- 23. What is the function of Iq E and Iq A?

