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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (MLT) Degree Examination - 24-Aug-2020

Time: Three Hours Max. Marks: 80 Marks
BIOCHEMISTRY - PAPER III (RS-3)

O.P. CODE: 3159

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

LONG ESSAY (Any Two)

2 x 10 = 20 Marks

- Explain the HMP shunt in detail and write its significance.
- Explain the sources, RDA, functions and deficiency features of Vitamin A.
- What is electrophoresis? Explain the method of separation of plasma proteins by this method. Draw the normal pattern obtained in alkaline pH.

SHORT ESSAY (Any Six)

6 x 5 = 30 Marks

- 4. Explain types of Jaundice.
- 5. Principle types and uses of ELISA technique.
- 6. Iron metabolism.
- Dietary fibers.
- 8. Thyroid function tests.
- 9. Renal regulation of acid base balance.
- Ketogenesis and conditions causing ketosis.
- 11. Name the key enzymes of Beta-oxidation of fatty acids and write the reactions catalysed by them.

SHORT ANWERS (Any Ten)

10 x 3 = 30 Marks

- Alpha feto protein.
- Write the normal serum level of ;
 - a) Sodium b) Total Cholesterol c) Potassium
- 14. Composition of renal calculi
- 15. Give two examples for detoxification by conjugation.
- Galactosemia.
- 17. Give an example each of preanalytical, analytical and postanalytical error in clinical laboratory.
- Okazaki fragment.
- 19. Functions of calcium.
- Vitamin K.
- 21. Enzyme markers in acute pancreatitis.
- 22. Define balanced diet.
- 23. What is meant by point of care testing? Give one example.

