

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (MLT) Degree Examination - SEP-2016

Time: Three Hours

Max. Marks: 80 Marks

Biochemistry – Paper III (RS-3 Scheme)

Q.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

1. Describe the various tests employed to assess liver function.
2. Explain the sources, RDA, functions, absorption, storage, transport and disorders associated with iron metabolism.
3. Give an account of eukaryotic mRNA transcription.

SHORT ESSAY (Any Six)

6 x 5 = 30 Marks

4. Quality Control charts
5. Metabolism of fructose and its associated disorders
6. Principle, instrumentation and applications of Atomic absorption spectrophotometry
7. Acid base disorders
8. Nutritional importance of carbohydrates and lipids
9. Vitamin K
10. Electrophoretic patterns of plasma proteins in diagnosis of diseases
11. Chemistry and diagnostic uses of cardiac markers

SHORT ANSWERS (Any Ten)

10 x 3 = 30 Marks

12. Recommended Dietary Allowance
13. Principles of chemiluminescence assay
14. Units of enzyme activity
15. Normal serum values of: a) TSH, b) T₃, c) T₄
16. Hypernatumia
17. Functions of albumin
18. Significance of HMP shunt pathway
19. Prostate Specific Antigen
20. Oncogenes
21. DNA Polymerases
22. Accuracy and Precision
23. Functions of cholesterol
