



Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (MLT) Degree Examination - APRIL-2019

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. What is replication? Give a brief description of the process and mention the salient features of replication.
2. Explain the various mechanisms in the human system that help in regulating PH.
3. Discuss in detail the various biochemical tests performed in the assessment of Liver function.

SHORT ESSAY (Any Six)

6 x 5 = 30 Marks

4. Principle and used of Ion Selective Electrode (ISE).
5. Write briefly on the internal and External quality control program in laboratory.
6. Hexose monophosphate shunt pathway and its significance.
7. Post transcriptional modification.
8. Functions and deficiency features of Vitamin D.
9. Absorption of Iron.
10. Draw the normal electrophoretic pattern obtained in serum protein electrophoresis. Explain the pattern obtained in Multiple myeloma and liver disease.
11. Oral glucose tolerance test and its interpretations.

SHORT ANSWERS (Any Ten)

10 x 3 = 30 Marks

12. Arterial Blood gas analysis.
13. Transport and storage forms of iron.
14. Functions of thyroid hormones.
15. Write the normal serum level of a) Potassium b) Total Bilirubin c) Chloride.
16. prostate specific antigen.
17. Rotheras test.
18. Galactosemia.
19. Vitamin E.
20. Point mutation.
21. Enzyme markers in acute pancreatitis.
22. Functions of phosphorous.
23. Biologically important compounds synthesized from cholesterol.

