

## Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (MLT) Degree Examination - SEP-2017

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. Explain the electrophoretic separation of plasma proteins using agarose gel.
2. Write a note on arterial blood gas analysis and its clinical significance.
3. Describe clinical laboratory automation in detail.

#### SHORT ESSAY (Any Six)

6 x 5 = 30 Marks

4. Nutritional disorders
5. Types of jaundice
6. Galactosemia
7. Post transcriptional and post translational modifications
8. Frederickson's classification of Hyperlipoproteinemia
9. Isoenzymes
10. Write a note on Mutations.
11. Functions of Thyroid hormones

#### SHORT ANSWERS (Any Ten)

10 x 3 = 30 Marks

12. Explain a) Mean b) Standard deviation c) Coefficient of variation
13. Metabolic alkalosis
14. Anion gap
15. Rickets
16. Alpha-1 antitrypsin
17. Normal serum levels of a) Total cholesterol b) Total bilirubin c) Total proteins
18. Composition of pancreatic juice
19. Henderson – Hasselbach equation
20. Biological reference intervals
21. Lipid profile
22. Functions of Iron
23. Sensitivity and specificity

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