

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (MLT) Degree Examination - AUG/SEP 2016

Time: Three Hours

Max. Marks: 80 Marks

Biochemistry – Paper II (RS-3 Scheme)

Q.P. CODE: 3156

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. Give an account of Watson-Crick structure of DNA. Add a note on different forms of DNA.
2. Discuss enzyme inhibition in detail with examples.
3. Write the pathway of degradation of purine nucleotides. Give the normal serum value of uric acid and explain the features of Gout.

SHORT ESSAY (Any Six)

6 x 5 = 30 Marks

4. Isomerism in monosaccharides
5. Diabetes Mellitus
6. Reflectance photometry – principle, instrumentation and applications
7. Abnormal physical characteristics and chemical constituents of urine
8. Indicators
9. Glycogen storage disorders
10. Alkaptonuria and Phenylketonuria
11. Denaturation of proteins

SHORT ANSWERS (Any Ten)

10 x 3 = 30 Marks

12. Ninhydrin test
13. Coenzymic forms of (a) Vitamin B1 (b) Vitamin B5 (c) Vitamin B7
14. Microalbuminuria
15. Disorders associated with carbohydrate digestion
16. Creatinine clearance
17. Maple syrup urine disease
18. Glycosuria
19. Preservatives used for urine collection
20. Grades of chemicals used in a laboratory
21. Blood urea nitrogen
22. Ascitic fluid
23. Derivatives of monosaccharides
