

Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination - JUNE-2019

Time: Three Hours

Max. Marks: 70 Marks

MEDICINAL BIOCHEMISTRY (RS & RS2)

Q.P. CODE: 2853

Your answers should be specific to the questions asked

Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

2 x 10 = 20 Marks

1. Explain glycogenesis and glycogenolysis.
2. Explain the metabolic pathway for the biosynthesis of the pyrimidine nucleotides.
3. Explain the factors affecting enzyme activity. Add a note on the properties of enzymes.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. What are isoenzymes? Describe their diagnostic applications.
5. Describe briefly the synthesis of bile acids. Add a note on enterohepatic circulation of bile salts.
6. What is jaundice? Explain the different types of jaundice.
7. Write the principle and significance of SGPT and SGOT determination.
8. How do you determine the total cholesterol in serum?
9. What is ELISA? Give its principle and applications.
10. Describe the components of ETC.
11. Outline the various biochemical reactions involved in HMP shunt pathway and write its significance.

SHORT ANSWERS

10 x 2 = 20 Marks

12. What are high energy compounds? Give two examples.
13. What is Line-Weaver Burk plot? Give its significance.
14. What is ketosis? Name the two conditions which lead to ketosis.
15. What is galactose tolerance test? Write its significance.
16. Enumerate the functions of unsaturated fatty acids.
17. Name four metabolic disorders of urea cycle with enzyme defect.
18. What are leading and lagging strands?
19. What is homocystinuria? What are its characteristics?
20. What are urinary tract calculi?
21. What are the causes of water depletion in the body?
