

Rajiv Gandhi University of Health Sciences, Karnataka

I Year Pharm-D Examination - 19-Mar-2021

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. Define Gluconeogenesis and explain the reactions involved in it with its significance.
2. Explain in detail the semiconservative replication of DNA.
3. Describe the β -oxidation of saturated fatty acid along with energetics.

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Explain glycogenesis.
5. What are isoenzymes? Describe their diagnostic applications.
6. Explain the IUB classification of enzymes.
7. Give the reactions of oxidative phase of HMP shunt and give the significance of this pathway.
8. Explain the synthesis and significance of adrenaline nor-adrenaline.
9. Explain urea cycle and give the deficiency symptoms of urea cycle enzymes.
10. Explain electron transport chain.
11. Discuss the lipid profile test.

SHORT ANSWERS

10 x 2 = 20 Marks

12. Write the structure and significance of ATP.
13. Give Michaelis-Menten equation with notations used.
14. Write the difference between RNA and DNA.
15. What are anaplerotic reactions?
16. What are bile salts? Give their importance.
17. Name two inhibitors of ETC and their sites of action.
18. What is Porphyrin?
19. Ketoacidosis.
20. What are urinary tract calculi?
21. Write about HDL and LDL.
