

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester B.Pharm Degree Examination – 06-Jun-2024

Time: Three Hours

Max. Marks: 75 Marks

BIOCHEMISTRY Q.P. CODE: 5007

Your answers should be specific to the questions asked

Draw neat labeled diagrams wherever necessary

All the questions are compulsory

LONG ESSAYS

2 x 10 = 20 Marks

1. Mention the types of RNA. Explain their role in Protein synthesis.

OR

Explain TCA cycle and give its significance with energetics.

2. Explain the degradation of heme and add a note on different types of jaundice.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Explain the energy investing reactions of glycolysis.

OR

Explain ketolysis with significance.

4. Write the significances of ATP and cyclic AMP.

OR

Describe the biosynthesis of pyrimidine bases.

5. What is substrate level phosphorylation and oxidative phosphorylation?

6. Define enzymes, classify them according to IUB.

7. Give the reaction sequence in HMP Shunt.

8. Give the salient features of genetic code.

9. Explain the double helical structure of DNA.

SHORT ANSWERS

10 x 2 = 20 Marks

10. What is beta oxidation of fatty acids?

11. What is alkaptonuria?

12. Write the significance of Lineweaver Burk plot.

13. Write the uncouplers of ETC.

14. What are Okazaki fragments

15. What is atherosclerosis?

16. Name the ketogenic amino acids.

17. Define enzyme induction and repression.

18. What are holoenzymes? Give examples.

19. Name the bile salts and give their significance.
