

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester B.Pharm Degree Examination – 22-Nov-2022

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. Explain TCA cycle and give its significance with energetics.

OR

Define enzymes. Write the IUB classification of enzymes in detail with examples.

2. Explain the biosynthesis of proteins in the body.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Write the formation of ketone bodies in the body.

OR

Explain the various types of glycogen storage diseases.

4. Explain electron transport chain.

OR

Explain competitive inhibition with example.

5. Define genetic code and give its salient features.

6. Explain the reactions of HMP pathway with its significance.

7. Explain the biologically important compounds obtained from cholesterol degradation.

8. Give the chemical classification of amino acids.

9. What are porphyrins? Explain the degradation of heme.

SHORT ANSWERS

10 x 2 = 20 Marks

10. What are isoenzymes? Give examples.

11. Write the types of diabetes mellitus.

12. Give the structure and biochemical functions of cyclic AMP.

13. Write the significance of Km value.

14. What are Okazaki fragments?

15. What is gout?

16. Name the essential fatty acids.

17. What is Phenylketonuria?

18. What is fatty liver?

19. Define free energy and redox potential.
