

Rajiv Gandhi University of Health Sciences, Karnataka

Second Semester B.Pharm Degree Examination – 18-Nov-2021

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 the general reactions involved in the metabolism of amino acids.

OR

Define enzyme inhibitors and discuss different types of enzyme inhibitions.

2. Describe the biosynthesis of purine nucleotides.

SHORT ESSAYS

7 x 5 = 35 Marks

3. Explain synthesis and significance of adrenaline and Nor-adrenaline.

OR

Explain different types of RNA.

4. Give the chemical classification of amino acids.

OR

Discuss the various types of glycogen storage diseases.

5. Describe the double helical structure of DNA.

6. Explain the chemiosmotic theory of oxidative phosphorylation.

7. Describe the hormonal regulation of blood glucose level in the body.

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

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

SHORT ANSWERS

10 x 2 = 20 Marks

10. What is the role of Carnitine in fatty acid metabolism?

11. Name the bile salts and give their significance.

12. Name energy rich compounds.

13. What is alkaptonuria?

14. Write the inhibitors of ETC.

15. What is tyrosinemia?

16. Name the glucogenic amino acids.

17. Define nucleosides and nucleotides.

18. Define free energy and redox potential.

19. Write the significance of Line-Weaver Burk plot.

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