

Rajiv Gandhi University of Health Sciences, Karnataka
I Year B.Sc. Optometry Degree Examination - 12-Dec-2022

Time: Three Hours

Max. Marks: 100 Marks

BASIC BIOCHEMISTRY AND NUTRITION (RS-4)

Q.P. CODE: 3340

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

LONG ESSAYS (Second Question Choice)

2 x 10 = 20 Marks

1. What are Phospholipids? Classify them with suitable examples. Explain the functions of phospholipids.
2. What is the normal blood urea level? How ammonia is converted to urea?

Or

Explain the role of buffers in regulation of acid base balance. Add a note on Metabolic Acidosis.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Explain the sources and functions of Vitamin D.
4. Define and classify enzymes with examples.
5. Name the plasma proteins. Enumerate the functions of plasma proteins.

Or

Discuss deficiency manifestation of Iron.

6. Explain Protein Energy Malnutrition.
7. Write the composition and functions of Mucopolysaccharides.
8. Post translational modification.
9. Describe the steps and energetics of Glycolysis.
10. Explain the Co-enzyme forms, Biochemical functions of Riboflavin.

Or

What are antioxidants? Write about enzyme antioxidant system.

11. Structure of t-RNA.
12. Pellagra.

SHORT ANSWER (Question No 15 & 20 choice)

10 x 3 = 30 Marks

13. Functions of Vitamin K
14. Essential Fatty acids.
15. Name the different Muscle Proteins and their function.

Or

Name the specialized products formed from Glycine.

16. Ocular manifestation of Vitamin A
17. Nitrogen balance.
18. What are Ketone bodies? Name the test done for the detection?
19. List any two significance of HMP shunt pathway.
20. Write the biological reference interval of a) Serum Calcium b) Serum Sodium c) Serum Creatinine

OR

What are essential amino acids? Give examples.

21. Disorders associated with collagen.
22. Scurvy.
