

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Optometry Degree Examination - 22-Nov-2023

Time: Three Hours

Max. Marks: 100

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. Define RNA. Write the structure and functions of various types of RNA
2. Describe the hexose monophosphate shunt and add a note on its significance

OR

Write an account of the various factors affecting enzyme activity

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. Glycosaminoglycans
4. Diagnostic importance of serum enzymes
5. Explain the factors affecting Basal Metabolic Rate (BMR)
6. Explain Wald's visual cycle
7. Write the structure and functions of three important disaccharides
8. Explain the classification of lipids with examples
9. Plasma protein
10. What are ketone bodies? Explain ketogenesis

OR

Explain the biochemical functions of phospholipids

11. Write a note on sources, RDA, biochemical functions of copper
12. Explain the nutritional aspects of proteins

SHORT ANSWER (Question No 15 & 20 choice)

10 x 3 = 30 Marks

13. Nitrogen balance
14. Functions of fatty acids
15. Antioxidants
16. Lactose intolerance
17. Peptide bond
18. Write any four nucleotides
19. Active site of enzyme
20. Benedict's test
21. Hypocholesterolemic agents
22. Oxidative deamination

OR

Coenzymes

OR

Rothera's test
