

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination - 27-Nov-2023

Time: Three Hours

Max. Marks: 100 Marks

BIOCHEMISTRY

(**RS-3** – B.Sc Cardiac Care Technology, Perfusion Technology, Renal Dialysis Technology, Respiratory Care Technology, Neuro Sciences Technology, Anesthesia Technology, Operation Theatre Technology, Emergency and Trauma Care Technology)

(**RS-4** – B.Sc Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology) Anesthesia and Operation Theatre Technology

Q.P. CODE: 3263

(QP contains two pages)

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. Give a detailed account of chemistry, source, RDA, functions and deficiency disorders of Vitamin C.
2. Describe the reactions of glycolysis indicating the enzymes. Add a note on net yield of ATP under aerobic and anaerobic glycolysis.

OR

Describe the reactions of Urea cycle.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. What is HMP Shunt? Give its significance.
4. Monosaccharides.
5. Describe the digestion and absorption of lipids.
6. Calcium sources, RDA, functions and deficiency manifestations.
7. Hyperglycemic hormones.
8. Clearance tests to assess glomerular functions.
9. Ketone bodies and their clinical significance.
10. Define and classify lipids. Add a note on its functions.

OR

BMR.

11. What are solutions? Classify them with suitable examples.
12. Define and classify enzymes with examples.

SHORT ANSWER (Question No 15 & 20 choice)

10 x 3 = 30 Marks

13. Balanced diet.
14. Different types of RNA with their functions.
15. Normal serum levels of a) Serum Urea b) Blood Glucose c) Serum Creatinine.

OR

Ocular manifestations of Vitamin A deficiency.

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16. Beri Beri.
17. Structure of t-RNA.
18. Define normal, molar and percent solution.
19. Pellagra.
20. Buffers.
OR
Ketosis.
21. Biological effects of radiations.
22. Isoelectric pH
