

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 03-Jun-2024

Time: Three Hours

Max. Marks: 80 Marks

BIOCHEMISTRY

(RS3 – Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology
RS2 – Operation Theatre Technology, Cardiac Care Technology, Perfusion Technology, Renal Dialysis
Technology, Respiratory Care Technology, Anaesthesia Technology and Neurosciences Technology)

Q.P. CODE: 3153

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary

SHORT ESSAYS (Answer Any Eight)

8 x 5 = 40 Marks

1. Write the principle, components and working of pH meter.
2. Explain saturated and supersaturated solutions with example.
3. Explain physical and chemical hazards in detail.
4. Classification of carbohydrates with examples.
5. Classify lipids with examples.
6. Laboratory safety measures.
7. Define and classify SI units.
8. Write the principle, components and working of colorimeter.
9. Define nucleotides. Add a note on its composition.
10. Define normality. How do you prepare 100ml of 1N Sulphuric acid.

SHORT ANSWERS (Answer Any Ten)

10 x 3 = 30 Marks

11. Working of an incubator.
12. Nutritional classification of amino acids.
13. First aid kit.
14. How to prepare 1M NaOH solution.
15. Beakers – types and functions.
16. Types of biomedical wastes.
17. Types of centrifuges.
18. Define test tube, Folin Wu tube and Centrifuge tube.
19. Define a) Acid b) Base with one example each
20. Significance of borosilicate glass
21. Define a) valency b) Molecular weight with one example each
22. Essential fatty acids.

TO THE POINT ANSWERS (Answer Any Five)

5 x 2 = 10 Marks

23. Uses of measuring cylinders.
24. Bunsen burner.
25. Phospholipids.
26. Magnetic stirrer.
27. Name any three functions of carbohydrates.
28. Define buffers. Give two examples.
29. Define Henderson-Hasselbalch's equation.
