

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 09-May-2025

Time: Three Hours

Max. Marks: 80

BIOCHEMISTRY

(RS-3 – Medical Laboratory Technology, Medical Imaging Technology and Radiotherapy Technology
RS-2 – Operation Theatre Technology, Cardiac Care Technology, Perfusion Technology, Renal
Dialysis Technology, Respiratory Care Technology, Anaesthesia Technology and Neurosciences
Technology)

Q.P. CODE: 3153

(QP contains two pages)

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. Classification of carbohydrates
2. Principle of colorimetry
3. Draw the diagram of water distillation apparatus and label
4. Write briefly on biomedical waste management
5. Functions of lipids
6. Structural classification of amino acids
7. Saturated and supersaturated solutions
8. Laboratory balances – types and uses
9. Name essential amino acids and their importance
10. Principle of centrifugation and applications

SHORT ANSWERS (Answer Any Ten)

10 x 3 = 30 Marks

11. Reflux condenser
12. Biological hazards
13. SI units
14. Essential fatty acids
15. Significance of borosilicate glass
16. Composition of nucleosides and nucleotides
17. Incubator
18. Types of funnels
19. Water bath
20. Bunsen burner
21. Responsibilities of health care personnel
22. Henderson Hasselbalch equation and its application

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TO THE POINT ANSWERS (Answer Any Five)

5 x 2 = 10 Marks

23. Components of first aid kit
24. Reagent bottles
25. Define test tube and Folin Wu tube
26. Name the buffers in blood
27. Auto pipettes
28. Write the diagram of Burette and Pasture pipette and their uses
29. Define cold box

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