

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination – 25-Nov-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

(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. Water distillation apparatus
2. Henderson – Hasselbalch equation
3. Different types of pipettes and their uses
4. Explain different types of flasks used in the laboratory.
5. Principle, parts and uses of Colorimeter
6. Define dilutions. Explain serial dilutions.
7. Add a note on incubators with diagram.
8. Explain two-pan laboratory balance with an example.
9. pH meter – principle, components and diagram
10. Explain water bath with the help of a diagram.

SHORT ANSWERS (Answer any Ten)

10 x 3 = 30 Marks

11. Significance of borosilicate glass
12. Definition and classification of SI units
13. Define (a) Valency (b) Molecular weight (c) Normality
14. Define (a) Test tube (b) Centrifuge tube (c) Wire gauze
15. Properties of bases
16. Functions of Aminoacids
17. Reflux condenser – components and use
18. Types of racks and their uses
19. Functions of carbohydrates
20. Explain Beer-Lambert's law. Add a note on its limitations.
21. Define indicators with examples.
22. Deep freezers

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TO THE POINT ANSWERS (Answer any Five)

5 x 2 = 10 Marks

23. Name Purine and Pyrimidine bases.
24. Name two strong acids.
25. Use of Funnels
26. Name two important blood buffers.
27. Water deionisers
28. What is percent solution?
29. Use of hot air oven
