

Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination - 31-Oct-2025

Time: Three Hours

Max. Marks: 100 Marks

PATHOLOGY

(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: 3264

(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. What is Virchow's triad? Discuss the mechanism of thrombus formation and the fate of a thrombus.
2. Explain the methods of collection and preservation of Urine samples. Add a note on steps of urine examination. Write in detail physical examination of urine.

OR

What is bleeding time? Discuss the methods of estimating BT with their normal range. List the causes of prolonged BT.

SHORT ESSAYS (Question No 5 & 10 choice)

10 x 5 = 50 Marks

3. What are Anticoagulants? List the anticoagulants used in the Clinical Laboratory with their mode of action and mention tests for which they are used.
4. Explain the principle and procedure of Prothrombin time. List causes of prolonged PT.
5. Tabulate the Stool examination findings differentiating Amoebic and Bacillary dysentery.
OR
List the methods of Hemoglobin estimation. What is normal hemoglobin range in adults?
6. Define ESR. Write the procedure and stages of ESR.
7. Tabulate the Antigens and Antibodies present in the ABO blood groups.
8. Define inflammation. Describe the types, signs and outcomes of inflammation.
9. Explain the types of pathological calcification and give examples.
10. Define necrosis. Discuss the types of tissue necrosis.
OR
Discuss the clinical manifestations and Laboratory diagnosis of Systemic Lupus Erythematosus.
11. Enumerate modes of Carcinogenesis with examples.
12. List the differences between Transudate and Exudate.

SHORT ANSWER (Question No 15 & 20 choice)

10 x 3 = 30 Marks

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13. Mention Ketone bodies and the test done to detect them.
14. List any three fluids and their Anatomical sites.
15. What is a vacutainer? Give two advantages of blood collection using vacutainers.
OR
List any three casts seen in urine sediment.
16. What is PCV? Give the normal range.
17. Mention sputum findings in bronchial asthma.
18. Mention three types of Emboli.
19. Enumerate any three signs of inflammation.
20. Staging cancer.
OR
What is edema? List two causes of edema.
21. Mention the ways of spread of tumors.
22. List three types of shock.
