

# Rajiv Gandhi University of Health Sciences, Karnataka

## I Year B.Sc. Allied Health Sciences Degree Examination - 12-May-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. Discuss the differences between benign and malignant neoplasms. Add a note on modes of carcinogenesis and ways of spread of tumors.
2. What are the anticoagulants used in a clinical laboratory? Discuss their modes of action and the tests for which they are used.

**OR**

What is CSF? List the indications of CSF examination and discuss the process of collection of CSF. Tabulate CSF findings in Pyogenic and Tuberculous meningitis.

### **SHORT ESSAYS (Question No 5 & 10 choice)**

**10 x 5 = 50 Marks**

3. What is cell injury? Discuss the types of cell injury.
4. Enumerate differences between Transudates and Exudates.
5. What is a thrombus? Explain the mechanism of thrombus formation.

**OR**

Discuss factors affecting wound healing.

6. What is autoimmunity? Describe the types of autoimmune disorders and give examples.
7. Define necrosis and describe patterns of tissue necrosis.
8. Tabulate the antigens and antibodies in ABO blood groups.
9. What is Bleeding time? Discuss the methods of estimation with their normal range.
10. Describe the stages of erythropoiesis, with neat labelled diagrams.

**OR**

Describe the positive pathological findings seen in urine sediment (microscopic examination).

11. Define inflammation. Discuss types of acute inflammation.
12. What is ESR? Explain the stages of ESR. Give the normal range.

### **SHORT ANSWER (Question No 15 & 20 choice)**

**10 x 3 = 30 Marks**

13. List any three non bile stained ova.
14. Write the principle of Benedict test.
15. List sputum findings in bronchial asthma.

**OR**

Mention any three coagulation factors in the intrinsic pathway of coagulation cascade.

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16. What is PCV? Give the normal range of PCV.
17. Explain the Major cross match done before of blood transfusions.
18. List any three signs of inflammation.
19. Mention the methods used for laboratory diagnosis of cancer.
20. Write any three types of emboli.  
**OR**  
Give any three examples of intracellular accumulation of substances.
21. List any three types of shock.
22. Mention types of pathology calcification with examples.

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