



# Rajiv Gandhi University of Health Sciences, Karnataka

I Year B.Sc. Allied Health Sciences Degree Examination - 23-May-2023

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. Define inflammation. Mention the causes, signs and types of inflammation. Add a note on factors that affect wound healing.
2. What are anticoagulants? List the anticoagulants used in a clinical laboratory, with their mode of action and the tests for which they are used.

**OR**

Write in detail the procedure and positive pathological findings in Urine sediment (Microscopy examination).

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

**10 x 5 = 50 Marks**

3. Write the principle of APTT. List three causes of prolonged APTT.
4. Tabulate the differences in benign and malignant tumors.
5. Define ESR. Describe the methods of determining ESR and causes of increased ESR.

**OR**

List the methods of Hemoglobin estimation. Explain the principle, procedure and interpretation of any one.

6. Describe the methods of determining ABO blood grouping.
7. Discuss the procedure and indications of CSF examination. List the lab findings of CSF in Pyogenic meningitis.
8. What is Autoimmunity? Classify Autoimmune disorders and give examples.
9. Define Neoplasia. Explain Grading and staging of cancers.
10. What is infarction? Explain the types of infarction

**OR**

Define shock. List the types of shock and give examples.

11. List the differences between Transudate and Exudate.
12. What is Edema? List the causes of Edema.

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

**10 x 3 = 30 Marks**

13. What is Reticulocyte count? Write the normal range of reticulocyte count in adults.
14. Draw a representative diagram of an Eosinophil.

# Rajiv Gandhi University of Health Sciences, Karnataka

15. What is Hematocrit? Write its normal range.  
**OR**  
Mention the types of Crossmatching.
16. Name three Non-bile stained ova.
17. What is a vacutainer? Give two advantages of blood collection using vaccutainers.
18. Define Necrosis.
19. List any three types of Emboli.
20. What is Cell injury? Mention types of cell injury.  
**OR**  
What are the components of Virchow's triad?
21. Mention the laboratory tests done for diagnosis of SLE.
22. Mention the types of pathological calcification and give examples.

\*\*\*\*\*