

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**Second Year B.Sc. (M.L.T) Degree Examination – 06-Jun-2024**

**Time: Three Hours**

**Max. Marks: 100 Marks**

**PATHOLOGY – II (RS-4)**  
**Q.P. CODE: 3281**

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 ESR? Write the stages of sedimentation. Describe the methods of ESR estimation.
2. Different types of microscopes and their applications.

**OR**

Write about different haematoxylin stain and steps in staining procedure of Haematoxylin and Eosin stain.

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

**10 x 5 = 50 Marks**

3. Decalcification.
4. Describe the investigations of G6PD deficiency.
5. Discuss the quality control in hematology laboratory.

**OR**

Describe the anticoagulants used in hematology lab.

6. Discuss activated partial Thromboplastin time.
7. Describe the Red Cell Indices with examples.
8. Special stains for carbohydrates.
9. Discuss automatic slide stainer.
10. Explain mounting techniques.

**OR**

Electron microscope.

11. Demonstration of LE cell.
12. Explain myelopoiesis.

**SHORT ANSWER**

**10 x 3 = 30 Marks**

13. What is mordant? Give an example.
14. Use and composition of supravital stain.
15. Platelet count.
16. Bleeding time.
17. List three fixatives.
18. Buffy coat.
19. Write the stages of normal erythropoiesis.
20. Name three clearing agents.
21. Write the uses and composition of Turk's fluid.
22. Fibrin Degradation Products.

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