

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**Second Year B.Sc. (M.L.T) Degree Examination – 04-Nov-2025**

**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. Name different methods of Hb estimation. Explain Sahli's method
2. Describe Osmotic Fragility test  
**OR**  
Preparation and staining of blood films

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

**10 x 5 = 50 Marks**

3. Briefly explain the frozen section processing
4. Explain Fluorescent Microscope and add a note on its application
5. Discuss the steps involved absolute Eosinophil count  
**OR**  
Describe the staining techniques for Nervous and bone tissue
6. Describe the procedure for Reticulocyte count
7. Tests of autoimmune and haemolytic anaemia
8. Explain different methods of blood collection
9. Write briefly on B12 assay and add its importance
10. Describe Schilling test and its importance  
**OR**  
Mention different types of microtomes and describe rotator microtomes
11. Measurement of abnormal Hb pigments
12. Describe sickling test

**SHORT ANSWER**

**10 x 3 = 30 Marks**

13. Importance of Paraffin in section cutting
14. Application of computer in pathology
15. List five anticoagulants
16. List three functions of Platelets
17. List three tests for G6PD deficiency
18. Euglobulin test
19. List three Cytochemistry stains
20. List the stages of Erythropoiesis
21. Function of stem cells
22. ICDS classification and coding

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