

# Rajiv Gandhi University of Health Sciences, Karnataka

## III Year B.Sc. (MLT) Degree Examination - 31-Oct-2025

**Time: Three Hours**

**Max. Marks: 80 Marks**

### **PATHOLOGY – PAPER III (RS-3)**

**Q.P. CODE: 3161**

Your answers should be specific to the questions asked  
Draw neat, labeled diagrams wherever necessary

#### **LONG ESSAY (Any Two)**

**2 x 10 = 20 Marks**

1. Define Karyotype. Describe the procedure of karyotyping from peripheral lymphocytes.
2. Mention donor selection criteria in detail.
3. Discuss the technique of collection of specimens for cervical cytology.

#### **SHORT ESSAY (Any Six)**

**6 x 5 = 30 Marks**

4. Discuss the normal cytology of respiratory system.
5. Describe the method of demonstration sex chromatin.
6. Inverted microscope.
7. Papanicolaou staining – principle, procedure and interpretation.
8. Describe the principle of working for Cytocentrifuge.
9. Discuss Bombay blood group.
10. Quality control in blood bank.
11. Applications of immunohistochemistry.

#### **SHORT ANSWERS (Any Ten)**

**10 x 3 = 30 Marks**

12. Colchicines.
13. Karyopiknotic index.
14. Principle of Coomb's test.
15. List three advantages of FNAC
16. Name three fixative used in cytology.
17. Classify chromosomes according to the centromere position.
18. Give three examples for oncogenes.
19. List any three donor adverse reactions.
20. Describe the principle of Flow cytometry.
21. Describe the Intermediate cell.
22. List three used of cryoprecipitate.
23. List blood grouping systems.

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