

# Rajiv Gandhi University of Health Sciences, Karnataka

## Third Year B.Sc. Medical Laboratory Technology Degree Examination – 31-Oct-2025

**Time: Three Hours**

**Max. Marks: 100 Marks**

### **PATHOLOGY – III (RS-4)**

### **Q.P. CODE: 3284**

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. Describe the methods of collection of specimens from respiratory tract for cytological examination along with the preparation and staining of smears
2. Describe the principle of immunohistochemistry and list five marker and its significances

**OR**

Enumerate various transfusion reaction. Explain the screening of blood for infective material

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

**10 x 5 = 50 Marks**

3. Hormonal cytology of female genital tract and cytological indices
4. Coomb's test
5. Laminar air flow equipment
6. May Grunwald Geimsa stain
7. Explain about blood containers and anticoagulants used in blood bank
8. Bethesda system in cytology
9. Component therapy in blood blank
10. Histology and physiology of thyroid gland

**OR**

Cytology of Endometrium

11. Oncogenes
12. Explain different methods of blood grouping

#### **SHORT ANSWER**

**10 x 3 = 30 Marks**

13. Barr body
14. Anatomy of lymph nodes
15. Mention three advantages of FNAC
16. Bombay blood group
17. Use and care of microscope
18. Maturation index
19. List three difference between Transudate and exudate
20. Donor selection criteria
21. Colchicine
22. What is flow cytometry?

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