



**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III Year B.Sc. (M.L.T) Degree Examination – 20-May-2023**

**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. Discuss principle, procedure of flow cytometry.
2. Enumerate the transfusion reactions. Discuss the process of investigating a transfusion reaction.

**OR**

Discuss the process of culturing peripheral lymphocytes. Add a note on different types of banding techniques.

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

**10 x 5 = 50 Marks**

3. Papanicolaou staining.
4. Rh blood group system.
5. Cytologic criteria for malignancy.

**OR**

Quality control in cytology laboratory.

6. Indications for platelet transfusions. How do you store platelets?
7. Write histology and normal cytology of respiratory tract.
8. Chromosomal abnormalities in cancer.
9. Hemolytic disease of the newborn.
10. What is Barr Body? Add a note on different staining methods used.

**OR**

Bombay blood group.

11. Describe the method of processing sputum for Cytologic examination.
12. Plasmapheresis.

**SHORT ANSWER**

**10 x 3 = 30 Marks**

13. FNAC of breast.
14. Cytology of carcinoma of cervix.
15. Oncogenes.
16. Significance of HLA antigens.
17. Du test.
18. Three anticoagulants used in blood bank.
19. Spray fixatives.
20. Use and care of microscope.
21. Triploidy.
22. Colchicines.