

**Rajiv Gandhi University of Health Sciences, Karnataka**  
**III Year B.Sc. (M.L.T) Degree Examination – 29-Nov-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. Give an account of cervical cytology screening for malignant and non-malignant conditions. Add a note on radiation changes.
2. Write about blood components preparation, storage and uses of each of them.

**OR**

Discuss methods of Karyotypic analysis.

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

**10 x 5 = 50 Marks**

3. Procedure of Papanicolaou's stain.
4. Cytology of cerebrospinal fluid.
5. Urine cytology.

**OR**

Fine needle aspiration cytology of salivary glands.

6. Laminar air flow equipment.
7. Direct and indirect Coomb's test.
8. Chromosomes in neoplasia.
9. HLA antigens.
10. Methods of bleeding donors.

**OR**

Transfusion transmitted diseases.

11. Investigation of transfusion reaction.
12. Rh blood group system.

**SHORT ANSWER**

**10 x 3 = 30 Marks**

13. Fixatives used in cytology.
14. May-Grunwald Giemsa stain.
15. Three uses of flow cytometry.
16. Three applications of Immuno cytochemistry.
17. Name three enzymes used in tissue culture.
18. Uses of inverted microscope.
19. Bombay blood group.
20. Duffy blood group system.
21. Three causes of mismatched blood transfusion.
22. Hormonal cytology

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