Rajiv Gandhi University of Health Sciences, Karnataka

Third Year B.Sc. Medical Laboratory Technology Degree Examination – 04-Nov-2026

Time: Three Hours **Max. Marks: 100**

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 the types of autologous transfusion and their benefits
2. Discuss culture of peripheral blood lymphocytes. Add a note on the different banding techniques

   OR

   Discuss various selection criteria used selecting a donor for blood donation

SHORT ESSAYS (Question No 5 & 10 choice) **10 x 5 = 50 Marks**

3. Describe ABO blood grouping methods
4. Platelet concentrates
5. Cytology of cerebrospinal fluid

   OR

   Urine cytology
6. List the blood components and their methods of preparation and storage
7. Applications of Immuno cytochemistry
8. Coomb's test
9. Laminar air flow equipment
10. Preservation of immortalized cell lines

    OR

    Preparation of smears and fixatives used in bronchial washings
11. Fine needle aspiration cytology
12. Preservation of fluids in cytology

SHORT ANSWER **10 x 3 = 30 Marks**

13. Maturation index
14. Uses of inverted microscope
15. Name three enzymes used in tissue culture
16. Histology of salivary gland
17. Exfoliative cytology
18. Changes occurring in stored blood components
19. Three causes of mismatched blood transfusion
20. Name the cells seen in pap smear
21. Spray fixatives
22. Name three minor blood group systems

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