Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Sc. (MLT) Degree Examination - 04-Nov-2026

Time: Three Hours **Max. Marks: 80**

PATHOLOGY – PAPER III (RS-3)

Q.P. CODE: 3161

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

LONG ESSAY (Any Two) **2 x 10 = 20 Marks**

1. List components prepared from whole blood. Discuss in detail the preparation, storage and uses of each one
2. Describe the procedure for immunohistochemistry staining and application of the same
3. Name the various cytological indices. Describe the procedure for liquid based cytology

SHORT ESSAY (Any Six) **6 x 5 = 30 Marks**

4. Principle and procedure of MGG stain
5. Carbon dioxide incubator
6. Transfusion reaction workshop
7. Discuss the methods ABO blood grouping
8. Principle and procedure of cytospin preparation
9. Autologous blood transfusion
10. Apheresis
11. Sex chromatin demonstration

SHORT ANWERS (Any Ten) **10 x 3 = 30 Marks**

12. Normal cytology of urinary sediment
13. Bombay blood group
14. Anticoagulants used in blood bank
15. Down's syndrome
16. Mention four special types of microscopes
17. List two advantages of Leuco depleted blood products
18. Mention four indications of flow cytometry
19. What the advantages of karyotyping
20. Mention karyotypic and phenotypic abnormalities of Turner's syndrome
21. Describe the intermediate cell
22. Draw neat labelled diagram of normal Pap smear
23. cryoprecipitate

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