

Rajiv Gandhi University of Health Sciences, Karnataka
III Year B.Sc. (MLT) Degree Examination - 29-Nov-2023

Time: Three Hours

Max. Marks: 80 Marks

PATHOLOGY – PAPER - III (RS3)

Q.P. CODE: 3161

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

LONG ESSAY (Any Two)

2 x 10 = 20 Marks

1. Write in detail the principle and procedure of Papanicolaou's staining method.
2. What are the types of anticoagulants used in blood bank? Describe their composition and mechanism of action.
3. Explain in detail the steps involved in peripheral lymphocyte culture for karyotyping.

SHORT ESSAY (Any Six)

6 x 5 = 30 Marks

4. What is autologous blood transfusion? Add a note on its advantages and disadvantages.
5. Fixatives used in cytology.
6. Flow cytometry – principle and applications.
7. Write about the screening methods for infective material in blood donors.
8. Cell block preparation.
9. Applications of Fine needle aspiration cytology.
10. List Banding techniques and explain any one method.
11. Principle, procedure and applications of immunocytochemistry.

SHORT ANSWERS (Any Ten)

10 x 3 = 30 Marks

12. Liquid based cytology.
13. Radiation changes in Pap smear.
14. Laminar air flow.
15. Name three blood grouping systems.
16. Name the cells seen in pap smear.
17. Give examples of immortalized cell lines and its uses.
18. Define progressive stain.
19. Sex chromatin.
20. Cryoprecipitate.
21. Direct Coomb's test.
22. Name three cytology samples from respiratory tract.
23. Name three distinguishing cytological features of malignant and benign cells.
