Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Sc. (MLT) Degree Examination - 03-Nov-2026

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

PATHOLOGY – PAPER II (RS3)
Q.P. CODE: 3158

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

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

1. What are anticoagulants? Name any four anticoagulants used in hematology laboratory with their mechanism of action and one use for each.
2. What are microtomes? Classify microtomes. Discuss in detail about the Rotary microtome.
3. What is haemostasis? Draw the intrinsic, extrinsic and common pathway of coagulation.

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

4. Compound microscopy
5. Applications of computers in pathology
6. Reticulocyte count
7. Investigation of G6PD deficiency
8. Bleeding time
9. Schilling's test
10. Hematocrit
11. Lupus Erythematosus (LE) cell

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

12. Sickling test
13. Name any three fixatives used in histopathology
14. Mention any three red cell indices.
15. Mention any two tests done for autoimmune hemolytic anemia.
16. Name any three Romanowsky's stain.
17. Write three characteristics of an ideal peripheral smear.
18. What is microphotography and give one use of microphotography.
19. Name three special stains used in the identification of fungi.
20. Name the methods of knife sharpening.
21. What is progressive staining? Give an example.
22. What is Absolute eosinophil count? Write its normal value.
23. Name any three cytochemical stains used in the diagnosis of acute leukemia.

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