

First Year B.Sc Anaesthesia Technology Degree Regular Examinations
November 2025
Paper IV Pathology
(2024 Scheme)

Time: 3 Hours

Total Marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(2x10=20)

1. Mention the types of blood groups and add a note on the procedure of blood group identification in a patient
2. Different methods of collection of blood samples. Add a note on the different anticoagulants used in hematology

Short Notes

(10x5=50)

3. Method of collection and processing of sputum sample to detect acid fast bacilli
4. Fibrinolytic system
5. Note on types of anemia
6. Define hemostasis and normal mechanisms to maintain
7. Clotting pathway
8. Note on safety guidelines in a laboratory
9. Normal urinary constituents
10. Classification of biomedical wastes
11. Hematoxylin and eosin staining
12. Indications for blood transfusion and a note on cross matching

Answer Briefly

(10x3=30)

13. Packed cell volume estimation and normal values
14. Transfusion reactions
15. Sickling test
16. Functions of platelet
17. Reporting of a normal peripheral smear
18. Functions of a neutrophil
19. Note on the various components of blood used for transfusion
20. Note on coagulation studies
21. Care of a microscope
22. Examination of feces

CORRECTION / NO-CORRECTION FILE
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QPCODE: 104034

Dated: 10-11-2025

Question No.6

Modified as "Define hemostasis and normal mechanisms to maintain it."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS