

PATHOLOGY
PAPER-IV

Time: 3 hours
Max. Marks:100

PATH/J/19/32/IV

Important Instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

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|-----|---|-----|
| 1. | a) Algorithm to use of blood components therapy in bleeding disorders.
b) Cord blood stem cells. | 5+5 |
| 2. | a) Qualitative defects of platelets and their diagnosis.
b) Hemophilia. | 5+5 |
| 3. | a) Recent advances in Myelodysplastic syndrome diagnosis.
b) Diagnostic criteria of light chain disease. | 5+5 |
| 4. | a) TRALI.
b) Diagnosis of microcytic anemias. | 5+5 |
| 5. | a) Minimal residual disease monitoring in CML.
b) Secondary autoimmune hemolytic anemia. | 5+5 |
| 6. | a) Thrombin-activable Fibrinolysis Inhibitor (TAFI): An important contributor in the fibrinolytic system.
b) Pathophysiology of bleeding in dengue virus infection: A Holistic view. | 5+5 |
| 7. | a) Hepcidin.
b) Thalassemia Screening & Control Program. | 5+5 |
| 8. | a) Molecular pathology of germinal cell derived B cell lymphomas.
b) Hemovigilance | 5+5 |
| 9. | a) Therapeutic indications of various blood component.
b) Absolute indications of bone marrow trephine biopsy & their diagnostic value. | 5+5 |
| 10. | a) Quality control in hematology laboratory.
b) Biomedical waste management in pathology laboratory. | 5+5 |
