

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:

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