

PATHOLOGY

PAPER – IV

PATH/J/17/32/IV

Time : 3 hours

Max. Marks : 100

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) Revised WHO 2016 Classification for chronic myeloproliferative disorders. 5+5
b) Iron resistant iron deficiency anemia.
2. a) Minimal residual disease in acute leukemia. 5+5
b) Laboratory approach for diagnosis of thrombophilia.
3. a) Secondary autoimmune hemolytic anemia. 5+5
b) Molecular and genetic pathobiology of multiple myeloma.
4. a) Transfusion related acute lung injury. 5+5
b) JAK 2 mutations in hematological malignancies.
5. a) Hematological changes in dengue fever. 5+5
b) Principles of automated blood cell counters.
6. a) Algorithm to use of blood component therapy in bleeding disorders. 5+5
b) Approach to diagnosis of hemoglobinopathies.
7. a) Laboratory diagnosis of acquired inhibitors of coagulation. 5+5
b) Principles and uses of HPLC.
8. a) Bone marrow failure syndrome. 5+5
b) Role of bone marrow biopsy in diagnosis and staging of lymphomas.
9. a) Biochemical basis of megaloblastic anemia. 5+5
b) Medicolegal liabilities in laboratory medicine.
10. a) Peripheral blood stem cell transplantation. 5+5
b) Hematological manifestations of HIV infection.
