

PATHOLOGY

PAPER – IV

PATH/J/16/32/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) Transfusion transmitted infections in thalasseemics. 5+5
b) Cord blood banking.
2. a) Immunomodulatory therapy in associated lymphoproliferative disorders. 5+5
b) Red cell membrane defects.
3. a) Interplay between haemostatic pathway and cancer biology. 5+5
b) Gene expression profiling in lymphomas.
4. a) Diagnosis of autoimmune haemolytic anaemia. 5+5
b) pANCA.
5. a) Platelet disorders and their investigation. 5+5
b) Role of flow cytometry in leukemia diagnosis.
6. a) Differential diagnosis of chronic lymphoproliferative disorders. 5+5
b) Recurrent chromosomal changes in AML.
7. a) Lab diagnosis of hemolytic uremic syndrome (HUS). 5+5
b) Pathogenesis of multiple myeloma.
8. a) Parvo virus infection and its haematological changes. 5+5
b) Blood components and their preparation in blood bank.
9. a) Prostaglandins and their role in thrombus formation. 5+5
b) Name various red cell indices measured by automated hematology analysers and their role in evaluation of anemia.
10. a) Agranulocytosis. 5+5
b) Fibrin degradation products.
