

PATHOLOGY
PAPER-IVTIME: 3 HOURS
MAX. MARKS: 100

PATH/J/20/32/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. Classify transfusion reactions. Discuss the algorithm used to investigate a case of transfusion reaction to identify the cause. 5+5
2. Classify myeloproliferative disorders. Discuss each entity as per WHO defining criteria. 3+7
3. Classify prothrombotic states. Discuss the investigation in such a case. 3+7
4. Enumerate the pre-analytical variables in hematology. How does it influence results in various parameters? 5+5
5. Classify plasma cell dyscrasias. Discuss MGUS. 5+5
6. Discuss role of molecular diagnostics in hematology. 10
7. a) PNH. 5+5
b) Dyserythropoietic anemias.
8. a) Newer information obtained from Hematology cell counter. 5+5
b) Use of flow cytometry in non-neoplastic hematological disorder.
9. Enumerate the causes of leuco-erythroblastic picture. How would you investigate a patient presenting with this picture on PBS. 10
10. a) Drug induced immune hemolytic anemia. 5+5
b) Chronic Eosinophilic Leukemia vs Idiopathic Hypereosinophilic Syndrome.
