

PATHOLOGY
PAPER-IV

TIME: 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:

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| 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.
b) Dyserythropoietic anemias. | 5+5 |
| 8. a) Newer information obtained from Hematology cell counter.
b) Use of flow cytometry in non-neoplastic hematological disorder. | 5+5 |
| 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.
b) Chronic Eosinophilic Leukemia vs Idiopathic Hypereosinophilic Syndrome. | 5+5 |
