

**PHARMACOLOGY**

**PAPER-II**

Time: 3 hours  
Max. Marks:100

PHARMA/J/20/34/II

**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. Enumerate the different classes of antidepressant drugs with examples. Discuss the mechanism of action, uses and side effects of selective serotonin reuptake inhibitors. 4+6
2. a) Neurosteroids as potential drug targets. 5+5  
b) Pharmacotherapy of pulmonary arterial hypertension.
3. Enumerate the drugs used for heart failure. Discuss the role of angiotensin receptor neprilysin inhibitors (ARNI) in the treatment of heart failure. 5+5
4. a) Discuss the emergency management of diabetic ketoacidosis. 5+5  
b) Discuss briefly newer hypolipidemic agents.
5. a) Therapeutic applications of monoclonal antibodies with suitable examples. 5+5  
b) Write mechanism of action, indications, adverse effects and important precautions while prescribing methotrexate.
6. Enumerate antimalarial drugs. Discuss the pharmacotherapy of chloroquine resistant malaria. 4+6
7. a) Clinical applications of low dose aspirin. 5+5  
b) Fibrinolytics.
8. a) Give the rationale and management of precipitation of acute attack of gout with allopurinol. 5+5  
b) What are the side effects with morphine therapy? Which drugs help in coping with these side effects?
9. a) Antileishmanial agents. 5+5  
b) Protease inhibitors.
10. Discuss the role of hematopoietic growth factors in anti-cancer chemotherapy 5+5

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