

**PHARMACOLOGY**
PAPER-II

PHARMA/D/17/34/II

Time: 3 hours

Max. Marks: 100

- 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 question 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) Mention various oral anti-diabetic agents, giving examples. 5+5
b) Mechanism of action, uses and adverse effects of DPP-4 inhibitors.
2. a) Mention different class of anti-platelet agents giving examples. 5+5
b) Briefly mention mechanism of action of ADP receptor antagonist.
3. a) Enumerate drugs causing nephrotoxicity and mention measures to clinically monitor the patient on nephrotoxic drug. 5+5
b) What role Pharmacogenomics can have in drug discovery?
4. a) Enumerate giving reasons of life saving and life style drugs giving examples. 5+5
b) What is the pharmacological rationale and dosage schedule of adrenaline in anaphylactic shock?
5. a) Enumerate non volatile general anaesthetic agents. 2+3+5
b) Etomidate is preferred inducing agent in elderly patients. Justify
c) Compare propofol and ketamine.
6. a) Outline pharmacotherapy of peptic ulcer. 5+5
b) Enumerate the different preparations and therapeutic uses of prostaglandins as oxytocics.



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| 7. | a) Mechanism of action and uses of interferons. | 5+5 |
| | b) Give critical appraisal of therapeutic uses, dosage schedule and adverse reaction of oseltamivir. | |
| 8. | a) Mention principles and applications of HPLC. | 5+5 |
| | b) Current approaches of pharmacotherapy of cardiac failure | |
| 9. | a) Pharmacotherapy of chronic bronchial asthma | 5+5 |
| | b) Enumerate drugs acting on dopamine receptors with therapeutic uses | |
| 10. | a) Pharmacological basis of use and adverse effects of alpha-adrenoceptor antagonists | 5+5 |
| | b) Therapeutic status and adverse reactions of lithium carbonate | |

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