

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:

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