

PHARMACOLOGY

PAPER – III

PHARMA/D/15/34/III

Time : 3 hours

Max. Marks : 100

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. Physiological role, pharmacological function and clinical use of Vitamin-D.	2+4+4
2. Mechanism of action, route of administration, adverse effect & precaution of infliximab use in inflammatory bowel disease.	3+2+3+2
3. Mechanism of action, therapeutic uses, adverse effects and clinical status of sitagliptin in management of diabetes mellitus.	3+2+2+3
4. Etiopathogenesis, management and recent advances for treatment of Alzheimer's disease (AD).	3+4+3
5. What are drug-drug and Drug food interactions? Describe physiological, pharmacokinetic and pharmacodynamic factors responsible for drug-drug and drug Food interactions mentioning suitable examples.	2+8
6. a) Pathophysiology and management of supra-ventricular tachycardia. b) Limitations of amiodarone as antiarrhythmic agent.	(2+5)+3
7. Uses, advantages and adverse effects of Selective Serotonin Re-uptake inhibitor (SSRIs).	3+4+3
8. a) Current approaches in the management of metabolic syndrome. b) Mechanism of action and adverse effects of metformin.	5+(3+2)
9. a) Classify general anesthetic agents. b) Mechanism of action, therapeutic uses, adverse effects and precautions of propofol.	2+(2+2+2+2)
10. a) Type I and type II error b) Student 't' test c) ANOVA test	5+2+3
