PHARMACOLOGY

PAPER - IV

PHARM/D/13/34/IV

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.

1.	Write briefly about GABA receptor. Enumerate the drugs acting on them. Discuss the clinical uses of these agents.	3+3+4
2.	Define endothelins. Name the receptors on which they act. Describe the inhibitors of endothelin system. Discuss briefly the physiological and pathological role of endothelin.	2+2+3+3
3.	Define nociception. Describe the chemical mediators involved in nociceptive pathway. Give a description of the drugs modulating them.	3+3+4
4.	Describe the various type of drug antagonism along with their mechanism. Give suitable examples to illustrate your answer.	7+3
5.	Enumerate various serotonergic receptors. Discuss uses of serotonin agonists and antagonists giving suitable examples.	3+3+4
6.	What do you understand by Novel Drug Delivery System (NDDS)? What are the objectives of developing NDDS? Describe targeted delivery of drugs by particulate carriers.	2+4+4
7.	Enlist various prostaglandins. Discuss their patho- physiological role and uses of these agents. Illustrate your answers giving suitable examples.	2+4+4
8.	Discuss the thyroid hormone with special reference to: a) Synthesis, storage and release b) Physiological effects c) Clinical usage	3+3+4
9.	Discuss various types of calcium channels. Enumerate the drugs modulating them. Discuss the pharmacological implications of these drugs.	2+4+4
10.	Explain the mechanism of cardiac glycosides as arrhythmogenic and anti-arrhythmics agents. Discuss the management of arrhythmias caused by them.	5+5
