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MPHARM
(SEM I) THEORY EXAMINATION 2023-24
ADVANCED MEDICINAL CHEMISTRY

TIME: 3 HRS**M.MARKS: 75**

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A**1. Attempt all questions in brief.****10 x 2 = 20**

a.	Differentiate the principle of site-specific and sustained drug delivery system
b.	Recall the types of receptors.
c.	Enlist the causes underlying in the development of resistance to drugs.
d.	What is the role of the chirality of a molecule?
e.	Outline the uses of thromboxanes.
f.	Give examples of psychoactive drugs.
g.	Define agonists and antagonists.
h.	What are artificial enzymes?
i.	Explain the purpose of a stereoselectivity study for drug design.
j.	Give the names of the signaling pathways involved in G-protein coupled receptors action.

SECTION B**2. Attempt any two parts of the following:****2 x 10 = 20**

a.	Define the stages of drug discovery and development.
b.	Discuss the SAR, Mechanism of action, and synthesis of any one antineoplastic agent.
c.	Explain the concept of peptidomimetics and explain various strategies involved in the design of peptidomimetics.

SECTION C**3. Attempt any five parts of the following:****7 x 5 = 35**

a.	Discuss the types of bio isosteres and bioisosteric replacement approach in drug design
b.	Outline various aspects of H1 and H2 receptor antagonists.
c.	Explain various forces involved in drug-receptor complex formation.
d.	Explain the chemistry of prostaglandins.
e.	Explain the importance and Applications of pro drug design.
f.	Explain the theory of enzyme kinetics & principles of enzyme inhibitors.
g.	Discuss various theories of drug-receptor interaction.