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BPHARM
(SEM IV) THEORY EXAMINATION 2025-26
PHARMACOLOGY I – THEORY

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.	State the four basic processes involved in pharmacokinetics.
b.	What do you understand by the term 'pharmacovigilance'?
c.	Briefly explain the classification of adverse drug reactions (ADRs).
d.	What are the types of drug receptors? Explain with examples.
e.	Describe the process of signal transduction mechanisms.
f.	What is the significance of the therapeutic index?
g.	Define enzyme induction and enzyme inhibition with examples.
h.	What is drug absorption? Mention the factors affecting drug absorption.
i.	Explain the concept of spare receptors.
j.	Differentiate between agonists and antagonists with examples.

SECTION B

2. Attempt any two parts of the following:

2 x 10 = 20

a.	Discuss the principles and mechanisms of drug action. Explain receptor theories and their classification.
b.	Describe the organization and function of the autonomic nervous system. Explain neurohumoral transmission and co-transmission.
c.	Describe the pharmacology of anti-epileptic drugs. Explain the types of epilepsies and the drugs used in their management.

SECTION C

3. Attempt any five parts of the following:

7 x 5 = 35

a.	Discuss the pharmacological management of Parkinson's disease and Alzheimer's disease, including the drugs used for their treatment.
b.	Classify general anesthetics into inhalational and intravenous agents, and describe their pharmacokinetics and pharmacodynamics.
c.	Write down the classification of drugs used in myasthenia gravis and glaucoma.
d.	Describe sedative and hypnotics class of drug with examples involving mechanism of action.
e.	Classify the phases of clinical trials and describe each phases in detail.
f.	Discuss detail concept of Pharmacovigilance.
g.	Classify opioid analgesics. Discuss pharmacology of morphine.