



Paper id: 252848

Printed Page: 1 of 1
Subject Code: BP404T

Roll No:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

BPHARM
(SEM IV) THEORY EXAMINATION 2024-25
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.	What is the Intrinsic activity of Agonist, Antagonist, Partial agonist and Inverse agonist?
b.	Differentiate between competitive and non-competitive antagonism with examples.
c.	Explain in short, the lock and key hypothesis of Drug -Receptor complex.
d.	Enlist the differences between Metabotropic and Ionotropic receptors with suitable examples.
e.	Give 2 examples of pharmacokinetic drug interactions.
f.	Write the side effects of Anticholinergic agents.
g.	How beta-blockers reduce the blood pressure.
h.	Enlist two antipsychotic drugs and mention their uses.
i.	What are nootropics? Give two examples.
j.	What are CNS stimulants? Give two examples with clinical use.

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

a.	Write a detailed note on all the phases of clinical trials and post marketing surveillance.
b.	Classify Local anesthetics. Discuss in detail the Pharmacology of Lidocaine. Give reason why adrenalin is combine with lidocaine in minor surgeries?
c.	What are Anti-epileptics? Give classification. Explain the mechanism of action, side effects and uses of Valproic acid.

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

a.	Explain the various routes of drug administration with their advantages and disadvantages.
b.	What is second messenger system? Explain the G-protein coupled second messenger systems in detail.
c.	Discuss the neurohumoral transmission of Dopamine.
d.	Write a note on stages of general anesthesia.
e.	Explain the mechanism of action of sedative and hypnotics.
f.	What are opioid analgesics. Classify them. Explain the uses of opioid antagonists.
g.	Classify antipsychotic drugs. Explain the mechanism of action and side effects of any one.