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**BPHARM**  
**(SEM V) THEORY EXAMINATION 2024-25**  
**MEDICINAL CHEMISTRY II – 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.	Discuss the uses of glucosidase inhibitors.
b.	What are sulfonyl ureas?
c.	Classify the histamine receptors.
d.	Write the MOA and uses of prednisolone.
e.	Give examples of anti-arrhythmic drugs.
f.	What are antineoplastic agents.
g.	List the examples of calcium channel blocking agents.
h.	Draw the structure of captopril.
i.	Explain the mechanism of action of estradiol.
j.	How do L-Thyroxine acts.

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

a.	Discuss the SAR of local anesthetics with the synthesis and MOA of procaine.
b.	Write the synthesis of nitroglycerin with uses and its mechanism of action.
c.	Classify the antidiabetic agents and discuss the chemistry and mechanism of action of insulin.

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

a.	Give the synthesis, MOA, and uses of mechlorethamine.
b.	Draw the structure of acetazolamide with its mechanism of action.
c.	Write the synthesis and uses of furosemide.
d.	Give a note on gastric proton pump inhibitors with examples.
e.	Explain the mechanism of action and uses of mercaptopurine.
f.	Illustrate the MOA of methyldopa.
g.	Discuss the mechanism of action and synthesis of warfarin.