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BPHARM
(SEM VI) THEORY EXAMINATION 2023-24

PHARMACEUTICAL CHEMISTRY-VII (MEDICINAL CHEMISTRY-II)

TIME: 3 HRS

M.MARKS: 70

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

SECTION A

1. Attempt *all* questions in brief.

2 x 7 = 14

a.	What is Coxibs?
b.	Write the Hammett equation and its significance.
c.	Draw the structure of Chlorpheniramine with uses.
d.	Give two structural examples of hypoglycemic agents.
e.	Draw structure of spironolactone with uses
f.	Write synthesis of Tolbutamide.
g.	Give structure and uses of Tazarotene.

SECTION B

2. Attempt any *three* of the following:

7 x 3 = 21

a.	Write a note on Antihistaminics with special reference to Diphenhydramine and Ranitidine their structure, mechanism and uses.
b.	Explain in detail role of Isosorbide dinitrate in Angina Pectoris.
c.	Discuss about structure-based design in detail.
d.	Explain in detail about physicochemical parameters in QSAR.
e.	Synthesis, SAR and medicinal uses of Mefenamic acid.

SECTION C

3. Attempt any *one* part of the following:

7 x 1 = 7

a.	Classify NSAIDs. Write the synthesis and mechanism of action of Diclofenac.
b.	Write a note on anticoagulants with special reference to Warfarin.

4. Attempt any *one* part of the following:

7 x 1 = 7

a.	Discuss in detail 2D and 3D QSAR methodologies.
b.	Write synthesis and medicinal uses of Acetazolamide and Chlorthalidide.

5. Attempt any *one* part of the following:

7 x 1 = 7

a.	Explain synthesis, mechanism of action and uses of Lovastatin.
b.	Discuss in detail about antithyroid drugs.

6. Attempt any *one* part of the following:

7 x 1 = 7

a.	Write about Cosmeceuticals. Write the synthesis of Minoxidil with uses.
b.	Explain chemistry, Pharmacology and uses of Atenolol and Procainamide

7. Attempt any *one* part of the following:

7 x 1 = 7

a.	Write a note on Proton pump inhibitors with special reference to Rabeprazole.
b.	Discuss chemistry, pharmacology and uses of Captopril and Amlodipine.