Paper id: 250741

Roll No: | | | | | | | | | | | | | |

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.	What are antiarrhythmic drug?
b.	Name two natural products used as an anticancer agent.
c.	Discuss the uses of glucosidase inhibitors.
d.	State the mechanism of action and uses of Methotrexate.
e.	Define antihistaminic with suitable examples.
f.	Write the mechanism of action of Digoxin in the treatment of congestive heart failure.
g.	What are oral contraceptives? Give example.
h.	Draw the structure of captopril.
i.	What are antihyperlipidemic with examples?
j.	Write the structure and uses of Testosterone.

SECTION B

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

a.	Discuss the SAR of local anaesthetics with the synthesis and MOA of procaine.
b.	Classify diuretics with examples. Explain SAR of thiazide diuretics along with synthesis, mechanism of action and uses of chlorothiazide.
c.	What are antihypertensive agents? Classify them and give mode of action and uses of methyldopate hydrochloride.

SECTION C

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

a.	Draw the structure of acetazolamide with its mechanism of action.
b.	Briefly explain erectile dysfunction and drugs used in it with their mechanism of action.
c.	Explain mechanism of action and uses of mercaptopurine.
d.	What is proton pump inhibitor? Explain SAR and synthesis of cimetidine.
e.	What are anticoagulants? Discuss mode of action and synthesis of Warfarin.
f.	Classify oral hypoglycaemic agents and describe in detail about SAR and mechanism of sulfonylureas along with synthesis of tolbutamide.
g.	What are antianginal drugs? Explain mode of action and synthesis of Nitroglycerin.