Subject Code: BP501T

PAPER ID-410347

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

B. PHARM
(SEM V) THEORY EXAMINATION 2021-22
MEDICINAL CHEMISTRY-II

Time: 3 Hours ***Total 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.	Draw any two structures of antimetabolites used as antineoplastic agents.
b.	Write synthesis of isosorbide dinitrate.
c.	What are oral contraceptives. Give examples.
d.	Discuss the mechanism of action and uses of acetazolamide.
e.	Give structure and mechanism of action of any one antihyperlipidemic agent.
f.	Describe calcium channel blockers along with their uses.
g.	Discuss the role of digoxin in treatment of congestive heart failure.
h.	Define oral anticoagulants with examples.
i.	Give the synthesis of benzocaine.
j.	Write down the structure, mechanism of action and uses of rabeprazole.

SECTION B

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

a.	Classify diuretics. Explain SAR of thiazides diuretics along with synthesis of chlorothiazide.
b.	Define and classify antihistaminic agents. Explain in detail about structures and uses of first generation H1 antihistaminic agents.
c.	What are antidiabetic agents. Classify oral hypoglycemic agents and describe in detail about SAR and mechanism of action of sulfonylureas along with synthesis of tolbutamide.

SECTION C

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

a.	Classify local anesthetics with examples and explain in detail about various benzoic acid derivatives.
b.	Describe antihypertensive drugs. Explain in detail about structures and mechanism of action of angiotensin converting enzyme inhibitors.
c.	Classify antineoplastic agents. Discuss in detail about structure and mechanism of action of alkylating agents.
d.	Explain thyroid and antithyroid drugs with structures and uses.
e.	Give classification of antianginal drugs. Discuss in detail structure, mechanism of action and uses of nitrates.
f.	Discuss in detail about different corticosteroids. Give structures of cortisone and prednisolone.
g.	Classify antiarrhythmic drugs. Describe in detail about structures and mechanism of action of drugs belonging to class I.

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