PAPER ID: 310047

Subject Code: BP501T

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

B PHARM
(SEM-V) THEORY EXAMINATION 2020-21
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.	Define antihistaminic agents with suitable examples.
b.	Draw chemical structure of rabeprazole.
c.	Write mechanism of action of antimetabolite.
d.	Define cotransporter and symporter.
e.	Write the synthesis and uses of methyldopa.
f.	Classify Class I antiarrhythmic agents with example.
g.	Enlist the name of drug used in congestive heart failure.
h.	Draw chemical structure of Sildenafil and Tadalafil.
i.	Discuss the mechanism of action of Thiazolidinediones.
j.	Write the synthesis of Benzocaine and Procaine.

SECTION B

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

a.	Classify antihistaminic agents with their chemical structure. Explain SAR of antihistamines. Discuss the synthesis and uses of Cimetidine.
b.	What is hypertension. Discuss in detail about drugs acting on Renin-Angiotensin system.
c.	What are lipoproteins? Classify antihyperlipidemic agents with suitable examples. Discuss the SAR of fibric acid derivatives.

SECTION C

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

a.	Describe the nomenclature and stereochemistry of steroids.
b.	Explain in detail about SAR of local anaesthetics.
c.	Discuss SAR and mechanism of action of alkylating agents.
d.	Explain the synthesis and uses of acetazolamide, chlorthiazide and nitroglycerine.
e.	Write mechanism of action and uses of Menadione, Acetomenadione, Anisindione and clopidogrel. Also write the synthesis of warfarin.
f.	Write a note on Oral contraceptives. Discuss the mechanism of action and uses of Mifepristone, Norgestril and Levonorgestrol.
g.	Discuss in detail about insulin and its preparation. Describe the mechanism of action, uses and synthesis of Tolbutamide.

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