PAPER ID-311195

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

BPHARM
(SEM VI) THEORY EXAMINATION 2024-25
MEDICINAL CHEMISTRY III – 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 Aminoglycosides?
b.	Discuss the principle of combinatorial chemistry.
c.	Whatis acyclovir?
d.	Classify the urinary tract anti-infective agents.
e.	Recall the uses of anti-protozoal agents.
f.	Discuss the principle of pharmacophore modeling.
g.	Give the structure and uses of chloramphenicol.
h.	Recall the etiology of malaria.
i.	Explain the mechanism of β- Lactamase inhibitors.
j.	Discuss the uses of chloroquine.

SECTION B

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

a.	Discuss the SAR, mechanism of action and uses of sulphonamides.
b.	Classify the anti-tubercular agents with a note on synthesis and MOA of isoniazid.
c.	What are prodrugs? Classify and write the applications of prodrugs.

SECTION C

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

a.	Give a short note on cephalosporins and their uses.
b.	Classify penicillin's with their uses.
c.	Describe the synthesis and uses of mebendazole.
d.	Illustrate the MOA and uses of trimethoprim.
e.	Draw the structure of dapsone with its uses.
f.	Write the principle of quantitative structure activity relationship (QSAR) study.
g.	Write the synthesis of ciprofloxacin.