Sub Code:BP402T

Paper Id: 910027 Roll No:

B PHARM
(SEM-IV) THEORY EXAMINATION 2019-20
MEDICINAL CHEMISTRY – I

Time: 3 Hours ***Total Marks: 75***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.
2. Any special paper specific instruction.

SECTION A

1. Attempt *all* questions in brief. 10 x 2 = 20

a. Define solubility.
b. What is ring equivalent bioisosterism.
c. Write the mode of action of methyldopa.
d. Write the synthetic route of Phenylephrine.
e. Define parasympatholyticc agents.
f. Classify cholinesterase inhibitors.
g. What are the ideal characteristic of sedatives and hypnotics.
h. Draw the chemical structure of Clonazepam and write mode of action
i. Write the synthetic route of halothane.
j. Write the mode of action of Ultra short acting barbitutrates.

SECTION B

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

a. Explain in detail about isosterism and bioisosterism with suitable examples.
b. Discuss the SAR beta blocker and write the mode of action synthesis of propanolol.
c. Write the chemical structure, mode of action, synthesis and use of carbachol and procyclidine.

SECTION C

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

a. Discuss the SAR of barbiturate with suitable examples.
b. Classify anti-inflammatory agents. Discuss the chemical structure mode of action and synthesis of ibuprofen.
c. Describe geometrical isomerism in relation to affect biological activity.
d. Discuss in detail about indirect acting sympathomimetic agents.
e. Classify anticonvulsant drugs and Explain SAR of succinimide. Write the mechanism of action and synthesis of ethosuccimide.
f. Discuss the SAR of morphine analogues. Write the mechanism of action and synthesis of fentanyl.
g. Write a short note on dissociative anaesthetics.