Printed Page 1 of 1

Paper Id: 910027

Roll No: Sub Code:BP402T

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.

 $10 \times 2 = 20$

- 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:

 $2 \times 10 = 20$

- 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:

 $7 \times 5 = 35$

- 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.