Seat Number



W-10

## BP 402 T Medicinal Chemistry – I (724402)

P. Pages: 2

Time: Three Hours

Max. Marks: 75

## Instructions to Candidates:

- 1. Do not write anything on question paper except Seat No.
- 2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
- 3. Students should note, no supplement will be provided.
- 4. All the questions are compulsory.
- Solve the following questions.

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- a) Define the following terms.
  - i) Agonist

- ii) Antagonist
- b) Give the mechanism of action of Ibuprofen.
- c) Enlist the factors affecting on drug metabolism.
- d) Draw the following structures.
  - i) Adrenaline

- ii) Ephedrine
- e) Define the following terms
  - i) Prodrug

- ii) Geometrical isomerism
- Classify parasympathomimetic agent with examples.
- g) Give the stages of Anesthesia.
- h) Write the catabolism of Acetylcholine.
- i) What do you mean by dissociation constant?
- j) Explain the method of synthesis of diazepam.

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- Classify Anticonvulsant agents with examples. Add a note on Mechanism of action and SAR of Anticonvulsant agent.
- Define Sedative and Hypnotics. Classify the Barbiturates and give SAR of Barbiturates.
- c) What are Analgesic and Anti-inflammatory drugs? Classify non steroidal anti-inflammatory drugs with examples.

## Solve any seven.

35

- Explain the factors affecting on drug metabolism.
- b) Give biosynthesis and catabolism of Catecholamine.
- c) Classify Anti adrenergic antagonist and give the SAR of  $\beta$  blockers.
- d) Give the structure of Benzodiazepines and SAR of it.
- e) Define General Anesthetics and classify it along with examples.
- f) Give the SAR of Salicylic acid derivatives.
- g) Define biotransformation and explain the phase I reaction in detail.
- h) Explain the SAR of phenothiazine.
- i) What are Sympathomimetic agent? Classify them with examples.

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