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B.Pharma (2017 Batch) (Sem.-4)
MEDICINAL CHEMISTRY-I

Subject Code : BP-402T M.Code : 75844

Time: 3 Hrs. Max. Marks: 75

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
- SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

Answer briefly :

- a) Give structures of any two direct cholinesterase inhibitors.
- Enumerate the biosynthetic pathway of acetylcholine.
- c) What is the significance of pKa value in drug action?
- d) Give mechanism of action of halothane.
- e) What do you understand by isosteric replacement?
- Give synthesis of phenylephrine.
- g) Write the structure and uses of salbutamol.
- h) Give structure and chemical name of any one β1-blocker.
- Write down an example of benzodiazepine acting as antiepileptic agent.
- Justify "the effect of geometrical isomerism on biological activity".

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SECTION-B

- Classify NSAIDs with examples. Give a detailed account on phenylpropionic acid derivatives.
- 3. Outline the synthetic schemes of the following drugs:
 - (a) Phenytoin
 - (b) Dicyclomine
 - (c) Carbachol
 - (d) Carbamazepine
- Write a detailed account on Phase 1 metabolic reactions with appropriate examples.

SECTION-C

- Give the salient chemical features and nomenclature of benzomorphan based opioids.
- 6. "Conformational isomerism leads to multiple modes of biological actions". Justify.
- Comment upon irreversible cholinesterase inhibitors.
- 8. Write down the SAR of phenothiazine class of antipsychotic agents.
- Classify antiepileptic agents giving at least two examples from each class.
- 10. Give structure, chemical name, mechanism of action and therapeutic uses of propanolol.
- Comment upon cardioselective β-blockers.
- Discuss SAR of barbituric acid derivatives.
- Outline the biosynthesis and metabolism of adrenaline.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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