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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Supplementary Winter 2023

Date: 04/01/2024

Course : B. Pharmacy	Sem: IV
Subject Name : Medicinal chemistry I	Subject Code : BP402 F
Max.Marks : 75	Duration : 3 Hr.

Instructions:

- All questions are compulsory
- Draw diagrams / figures wherever necessary
- Figures to right indicate full marks

Q. 1. Objective Type Questions (Answer all the questions) (10 x 2) = 20

- Write about Partition coefficient in relation to biological action.
- Define bio-isomers and classify with examples.
- Draw structure and write mechanism of action and medicinal uses of Phenylephrine.
- What are cholinergic agents write mechanism of action with example.
- Write the MOA of Neostigmine.
- What are adrenergic receptors? How will you classify them?
- Outline the synthesis of Salbutamol.
- Discuss alpha adrenergic antagonists with examples.
- Write mechanism of action with example of solanaceous alkaloids and analogs.
- Draw structure and write mechanism of action of Chlorpromazine hydrochloride.

Q. 2. Long Answers (Answer 2 out of 3) (2 x 10) = 20

- What is epilepsy? Classify anticonvulsants with examples. Discuss Hydantoins as anticonvulsants and outline synthesis of Phenytoin.
- Elaborate on biosynthesis, catabolism of Acetylcholine. Draw synthesis and write mechanism of action of carbachol.
- What are catecholamines? Outline biosynthetic and metabolism pathway of catecholamines in body.

Q. 3. Short Answers (Answer 7 out of 9) (7 x 5) = 35

- Explain with examples Cholinesterase enzyme inhibitors.
- Write a note on importance of stereo chemistry in drug action.
- What are different factors affecting drug metabolism.
- Write in detail about SAR and mechanism of Phenothiazine as Antipsychotics with examples.
- What are sedatives and hypnotics? Write SAR of Benzodiazepines.
- Explain the Mechanism of action and classification of General anesthetics and draw synthesis of Halothane.

- Write a note on Beta blockers with examples.
- Explain in detail chemistry and Mechanism of action of non narcotic anti-inflammatory agent with examples.
- Explain classification of opioid analgesics. Explain SAR and therapeutic uses of Meperidine analogs.

-----END OF THE PAPER-----

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