

DEPARTMENT OF PHARMACEUTICAL SCIENCES & TECHNOLOGY

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(Internal Assessment I)

CLASS: BPHARM
BRANCH: PHARMACY

SEMESTER: IV
SESSION: SP2025

TIME: 2.00 Hour

SUBJECT: BP402T MEDICINAL CHEMISTRY I

FULL MARK: 30

PART I

- A. Objective type questions(Answer all questions) CO1(5 x02=10 marks)
1. Autonomic Nervous system is broadly classified into two divisions, the _____ and _____.
 2. _____ is the neurotransmitter between the nerve endings and the effector organ in case of sympathetic or adrenergic nervous system,
 3. _____ is another endogenous sympathomimetic agent which after its synthesis is stored in adrenal medulla.
 4. Ahlquist classified adrenergic receptors into two classes namely _____ and _____ - adrenergic receptors.
 5. Both _____ and _____ -adrenergic receptors are guanine-nucleotide-regulatory protein (G-protein) linked receptors.

PART II

- B. Long Answers(Answer any one out of two) (01x10=10 marks)
1. Discuss the distribution of adrenergic receptors in various organs and response obtained after stimulation
CO2
 2. Briefly discuss about factors affecting oral absorption
CO4

PART III

- C. Short Answers(Answer any two out of three) (02x05=10 marks)
1. Detail out about the indirect acting sympathomimetics
CO4
 2. Explain the synthesis of (i) Norepinephrine (2) Epinephrine
CO5
 3. In detail discuss about Monovalent bioisosteres with suitable examples

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