

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI  
(END SEMESTER EXAMINATION)

CLASS: M.Pharm  
BRANCH: PHARMACY

SEMESTER: Ist  
SESSION:MO/22

SUBJECT: MPL102T ADVANCED PHARMACOLOGY-1

TIME: 3.00 Hours

FULL MARK: 75

INSTRUCTIONS:

1. The missing data, if any, may be assumed suitably.
  2. Before attempting the question paper, be sure that you have got the correct question paper.
  3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
  5. Answer any five questions.
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| 1a. Write short notes on (a) Therapeutic Index (b) Types of dose response curve  | [7] |
| 1b. Write types & mechanism of Drug action .   | [8] |
| 2a. Classify and explain Receptor families.  | [7] |
| 2b. Explain combined effect of drugs with examples.  | [8] |
| 3a. What are Different causes of anemia. How is acute Iron poisoning treated.  | [7] |
| 3b. Categorize anti- hypertensives with examples.  | [8] |
| 4a. Classify diuretics and elaborate the mechanism of action and therapeutic uses of different diuretics.  | [7] |
| 4b. Describe cholinergic receptors with respect to their location in different body parts and mention their agonists with therapeutic uses.                                  | [8] |
| 5a. Describe synthesis ,storage , release, receptor binding mechanism of Acetylcholine with suitable diagram.  | [7] |
| 5b. Describe synthesis, storage, release and types of receptors and their physiological action of Dopamine with suitable diagram.  | [8] |
| 6a. Illustrate different stages of general anaesthesia and explain clinical uses of different inhalational and intravenous anaesthetic agents with preanesthetic medication. | [7] |
| 6b. Explain therapeutic regimen of antiparkinsonian drug for different Parkinson's Patients.   | [8] |
| 7a. Explain different mechanism of action of antiepileptic drugs and therapeutic drug regimen for different epilepsy patients.   | [7] |
| 7b. Explain therapeutic regimen of SSRI , TCA , Atypical antidepressants for different depression patients.  | [8] |

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