

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

CLASS: BPHARM
BRANCH: PHARMACY

SEMESTER : IV
SESSION : SP/18

TIME: 3 HOURS

SUBJECT: PS4405-PHARMACOLOGY-I

FULL MARKS: 60

INSTRUCTIONS:

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
 2. Candidates may attempt any 5 questions maximum of 60 marks.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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- Q.1(a) Define Pharmacokinetics and Pharmacodynamics [2]
Q.1(b) What are the different drug reservoirs? Discuss drug permeability across blood brain barrier [4]
Q.1(c) "Physicochemical factors may affect drug absorption" Elaborate [6]
- Q.2(a) Define a poison [2]
Q.2(b) Classify types of toxicities [4]
Q.2(c) Write a note on heavy metal toxicity [6]
- Q.3(a) Define an agonist and antagonist [2]
Q.3(b) Distinguish between partial, inverse and full agonist [4]
Q.3(c) Explain the process of receptor mediated drug action [6]
- Q.4(a) Distinguish between ADR and AE [2]
Q.4(b) Enumerate different types of bioassay [4]
Q.4(c) Discuss the steps involved in bioassay of oxytocin and acetylcholine [6]
- Q.5(a) Distinguish between tolerance and dependence [2]
Q.5(b) Write a note drug excretion [4]
Q.5(c) Discuss the steps involved in biotransformation of drugs [6]
- Q.6(a) Distinguish between additive and synergistic effect [2]
Q.6(b) "Drug metabolism may increase/decrease drug activity and toxicity" Discuss [4]
Q.6(c) Enumerate and discuss the various processes involved in drug absorption [6]
- Q.7(a) Explain the terms autacoids [2]
Q.7(b) Explain the process of synthesis and degradation of serotonin and histamine [4]
Q.7(c) Write a note on various eicosanoids [6]

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