

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

**CLASS: BPHARM
BRANCH: PHARMACY**

**SEMESTER: IV
SESSION: SP/2019**

SUBJECT: BP404T PHARMACOLOGY I

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.
 4. This question paper consists of (03) three parts. Read the part wise instructions before attempting the questions.
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PART-I

Objective types questions (Instruction: Answer all questions)

Q1. (10 x 2 = 20 Marks)

- A. Define and classify antidepressants.
- B. What opiates refer to and classify opioids.
- C. Give therapeutic uses of alcohol.
- D. What are the different phases of sleep?
- E. Explain the rationale for using the combination of halothane and nitrous oxide.
- F. What is conscious sedation?
- G. What does EPSP stand for?
- H. Give drug interactions of local anesthetics.
- I. Discuss the receptor families.
- J. Define agonist and antagonist.

PART-II

Short Answers

(Instruction: Answer seven out of nine questions)

(7 x 5 = 35 Marks)

- Q2. Elaborate CNS depressant and stimulant effects of morphine.
- Q3. Outline the therapeutic uses of opioids.
- Q4. Define and classify antipsychotic drugs.
- Q5. Discuss methanol poisoning and its treatment.
- Q6. Define and classify epilepsy.
- Q7. Compare conduction block and epidural anaesthesia.
- Q8. Classify adrenergic drugs on the basis of therapeutic use.
- Q9. Classify antimuscarinic agents.
- Q10. Explain the clinical importance of plasma protein binding.

PART-III

Long Answers

(Instruction: Answer two out of three questions)

(2 x 10 = 20 marks)

- Q11. Discuss pharmacokinetics and adverse effects of morphine.
- Q12. Illustrate mechanism of action, Pharmacokinetics and adverse effects of phenytoin(antiepileptic drug).
- Q13. Elaborate various routes of drug administration. Give advantages and disadvantages of oral and i.v routes.