

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

**CLASS: B.PHARM
BRANCH: PHARMACY**

**SEMESTER: V
SESSION MO2023**

SUBJECT: BP503T PHARMACOLOGY II

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. State the site of action of osmotic and thiazide diuretics at the nephron
- B. Mention the side effects of the oral hematinic agents.
- C. Mention any four agents used for the treatment of shock.
- D. List down any two applications of bioassay.
- E. Write the names of two lipid-derived autacoids.
- F. Give sources of cardiac glycosides
- G. Enumerate phospholipids present in blood plasma
- H. Mention basis for combining statins with ezetimibe
- I. Why sulfonyl ureas are not effective in type-1 diabetes mellitus
- J. Give disorders of growth hormones

PART-II

Short Answers

(Instruction: Answer seven out of nine questions)

(7 x 5 = 35 Marks)

- Q2. Discuss the mechanism of actions of ant diuretic agents acting on vasopressin receptors (V1 and V2).
- Q3. Discuss different categories of drugs used in the control of acute and chronic gout conditions.
- Q4. Classify oral anticoagulants with examples in each category.
- Q5. Define bioassay. Discuss the principles and types of bioassays used in pharmaceutical research.
- Q6. Classify non-steroidal anti-inflammatory drugs (NSAIDs) with example.
- Q7. Give indications & complications of Insulin therapy.
- Q8. What happens in congestive cardiac failure. Name the drugs with example to treat the condition.
- Q9. Enumerate oral anti-diabetics with example.
- Q10. What is thyrotoxicosis & how it is treated

PART-III

Long Answers

(Instruction: Answer two out of three questions)

(2 x 10 = 20 marks)

- Q11. A. Classify antihistaminic agents with proper examples. Explain the side effects of antihistaminic agents.
B. Write notes on 5-HT₁ receptor agonists.
- Q12. A. Categorise the agents used as plasma volume expanders. Discuss properties of plasma volume expanders.
B. Discuss Insulin, its secretion & mechanism of action.
- Q13. Give pharmacological actions of Gluco-corticoids.