

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

**CLASS: BPHARM
BRANCH: PHARMACY**

**SEMESTER: V
SESSION: MO/2019**

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)

1. Explain mechanism of action of loop diuretics.
2. Define two approaches to treat hypertension.
3. Name two β -blockers.
4. Classify hypolipidemic drugs & classify anticoagulants.
5. What is SIADH and its treatment?
6. Classify Histamine H_1 receptor blockers.
7. Define hormones and its types.
8. Name commonly used human insulins.
9. What is diabetic ketoacidosis?
10. What is magnification value in bioassay

PART-II

Short Answers

(Instruction: Answer seven out of nine questions)

(7 x 5 = 35 Marks)

- Q1. Define hypertension & different types of antihypertensive drugs.
- Q2. Classify types of angina and anti angina drugs.
- Q3. Analyse the causes of anaemia.
- Q4. What hormones are produced by anterior pituitary gland?
- Q5. Define and classify gout and how is gout treated?
- Q6. Compare T_3 & T_4 hormones and what preparations of both are available?
- Q7. What preparations of Vitamin D are available? Give its therapeutic uses.
- Q8. Discuss uses of lever, fixing of tracings and magnification value in bioassay.
- Q9. Elaborate hormonal contraceptives. Why oestrogen and progestin are combined in oral contraceptive?

PART-III

Long Answers

(Instruction: Answer two out of three questions)

(2 x 10 = 20 marks)

- Q1. Explain bioassay and why we go for it? Discuss the bioassay of insulin by both the methods.
- Q2. Summarize the pharmacological actions of corticosteroids.
- Q3. Define mechanism of urine formation. Classify diuretics & give therapeutic uses of loop diuretics.

:::29/11/2019:::M