

Examination: B. PHARMACY THIRD YEAR FIRST SEMESTER - 2025

Subject: Pharmacology II

Ref. No.: Ex/BP503T/2025

Time: 03 hrs Full Marks: 75

SECTION A (25 marks)

- Q1)** Write down the mechanism of action of Nitrates as vasodilator. Explain in details about the hypothesis behind the development of tolerance for Nitrates. (4+6)
- Q2)** With examples write down the Sicilian Gambit system of classification for Antiarrhythmic Drugs. Explain how sometimes Anti-arrhythmic drugs themselves behave as Pro-arrhythmic agents. (7+3)
- Q3)** Explain how CCBs act as vasodilators. Give two examples of CCB which can reduce Heart Rate. (3+2)

SECTION B (25 marks)

- Q4)** Write down the biosynthesis of Insulin in beta cell. Discuss the regulation of Insulin secretion. Write in short about the pharmacological action of insulin. (4+5+6)
- Q5)** Write short note on (any one) (10)
- a) Management of thyroid disorders
 - b) Estrogen.

SECTION C (25 marks)

(Attempt any one out of question 6 or 7, question 8 and 9 are compulsory)

- Q6)** Discuss the biosynthesis and physiological functions of prostaglandins. (6+7)
- OR**
- Q7)** Discuss the biosynthesis and physiological functions of leukotrienes. (6+7)
- Q8)** Briefly discuss the mode of action and adverse effects of Aspirin. (3+3)
- Q9)** Discuss the mode of action and clinical uses of following drugs (*any two*): (2x3=6)
- a) Paracetamol b) Iloprost c) Misoprostol d) Latanoprost