

Examination: B. PHARMACY THIRD YEAR FIRST SEMESTER - 2024

Subject: Pharmacology II

Ref. No.: Ex/BP503T/2024

Time: 03 hrs Full Marks: 75

SECTION A (25 marks)

Q1)

- a) Write down the mechanism of action for Nitrates when used for coronary vasodilation. (4)
- b) Discuss about the clinical hypothesis (s) for development of tolerance in Nitrate therapy. (6)
- c) Give examples for Non-nitrate vasodilators. (3)

Q2)

- a) Classify CCBs with examples and mention about their pharmacological peculiarities. (6)
- b) With the help of a flow diagram explain in details about the effect of Beta stimulation in cardiac tissue. (6)

SECTION B (25 marks)

Q3) Write the biosynthetic pathway of thyroid hormone. Write in short about hypothyroidism and its management. (10+5=15)

Q4) Write notes on (any two) (10)

- a. Regulation of insulin secretion
- b. Acetylcholine bioassay.
- c. G- protein coupled receptor

SECTION C (25 marks)

(Attempt any one out of question 5 or 6, question 7 and 8 are compulsory)

Q5) Discuss the biosynthesis and physiological functions of prostaglandins. (3+4)

OR

Q6) Discuss the biosynthesis and physiological functions of leukotrienes. (3+4)

Q7) Briefly discuss the mode of action and adverse effects of Paracetamol. (3+3)

Q8) Discuss the mode of action and clinical uses of following drugs (*any four*): (4x3=12)

- a) Hydrochlorthiazide b) Aspirin c) Misoprostol
- d) Acetazolamide e) Iloprost f) Latanoprost