

Examination: Bachelor of Pharmacy 3rd year 1st Semester
SUPPLEMENTARY Examination 2024
Subject: **Pharmacology II**
Ref. No.: **Ex/BP503T/2024(S)**
Time: 03 hrs Full Marks: 75

SECTION A (25 marks)

Q1)

- a) Write down how Nitrates produce Vasodilation in blood vessels?
b) Write down examples of Non-Nitrate vasodilators. (12)

Q2)

- a) Write down the molecular mechanism of Beta blockers working in cardiomyocytes.
b) Explain why Beta blockers are unable to reduce Blood Pressure on acute scale? (13)

SECTION B (25 marks)

Q3) Write the biosynthetic pathway of insulin. How insulin secretion is regulated? Write in short about different insulin preparation. (5+5+5=15)

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

- a. Regulation of thyroid hormone secretion
b. Insulin bioassay.
c. Nuclear receptor.

SECTION C (25 marks)

Q5) Discuss the physiological functions of prostaglandins. (10)

Q6) Briefly discuss the mode of action and adverse effects of Paracetamol. (7)

Q7) Discuss the mode of action and adverse effects of the following drugs (*any two*): (4+4)

- a) Hydrochlorothiazide b) Alprostadil c) Spironolactone d) Latanoprost