

Ex/BP503T/2023(S)

**BACHELOR OF PHARMACY EXAMINATION, 2023**

( 3rd Year, 1st Semester, Supplementary )

**PHARMACOLOGY**

Time: 3 Hours

Ful Marks: 75

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**SECTION A (25 marks)**

**(Question 1 and 2 are compulsory, attempt any one out of Question 3 or 4)**

Q1) Write in details about the clinical hypothesis believed to be responsible for development of "Nitrate Tolerance". (10)

Q2) Explain how Beta Blockers helps remodeling of heart when used for management of Heart Failure. (7)

Q3) Explain with examples the mechanism of action for Calcium Channel Blockers in the management of Hypertension. (8)

.....**OR**.....

Q4) Write in details with examples about the Sicilian Gambit classification of anti-arrhythmic drugs. (8)

**SECTION B (25 marks)**

Q5) Write down the bio-synthesis of insulin and how insulin secretion is regulated. Write in details about insulin preparation. (9+6=15)

Q6) Write notes on **(any one)** (10)

- a. Sulfonylureas as oral hypoglycemic agent
- b. Estrogen.

**SECTION C (25 marks)**

Q7) Discuss the biosynthesis and physiological functions of prostaglandins. (5+4)

Q8) Briefly discuss the mode of action and adverse effects of Aspirin. (4+4)

Q9) Discuss the mode of action and adverse effects of the following drugs **(any two)**: (4+4)

- a) Hydrochlorthiazide
- b) Furosemide
- c) Spironolactone
- d) Acetazolamide