

B. Pharm. 4th year 1st Semester Examination 2023

Subject: Pharmacology III

Ref. No.: Ex/PHARM/T/413/2023

Time: 03 hrs Full Marks: 100

SECTION A (30 marks)

- Q1) Explain the vasodilatory mechanism of action for Nitrates. Why Acetylcholine and Dipyridamol can't be used in the management of Angina. . (6+6)
- Q2) Explain how After potential type and Re-entrant type of arrhythmia sets in. (10)
- Q3) Write down the classification of Calcium Channels Blockers with examples and mention how many types of Calcium Channels are clinically relevant. (5+3)

SECTION B (35 marks)

- Q4) Explain the phases of cell cycle. Classify anticancer drugs on the basis of its cell cycle specific cytotoxic effect. Write shortly about adverse effect of cytotoxic drugs. (4+8+8=20)
- Q5) Write notes on (7.5X2=15)
- a) Apoptosis
- b) Resistance to cytotoxic drugs

SECTION C (35 marks)

- Q6) Explain the mode of action, adverse effects, clinical applications and development of resistance for the following anti-microbial agents (*any two*) (15)
- a) Co-trimoxazole b) Levofloxacin c) Sulfadoxine
- Q7) Classify the β -lactam antibiotics. Discuss the mode of action of Amoxycillin. (5+5)
- Q8) Explain the development of resistance to β -lactam antibiotics. Also explain the means clinically useful to counter resistance against β -lactam antibiotics. (6+4)