

FACULTY

**B. Pharmacy 3/4 Year I Semester (Non CBCS)(Backlo) Examination,
Auust 2019**

Subject : Pharmacology I

Time : 3 Hrs

Max. Marks: 70

Note: Answer all questions. All questions carry equal marks.

- 1 a) What are different rtes of dru administration? Compare the merits and demerits of oral and parenteral rtes of administration. (8)
 - b) Define the followin: (6)
 - (i) Therapeutic Index
 - (ii) Tolerance
 - (iii) Bioloical Half life
- OR**
- c) Define and classify the receptors. Explain in detail abt – protein cpled receptors (2+3+5)
 - d) Write short notes on LD₅₀ and ED₅₀ (4)
- 2 a) Explain the pharmacoloical effects and therapeutic uses of: (14)
 - (i) Physostimine
 - (ii) Atropine
 - (iii) Propranolol
 - (iv) Prazosin
- OR**
- b) Classify the Cholinergic aents with examples. Write their actions on (i) Heart, (ii) Bronchioles, (iii) Intestine and (iv) Eye. Add a note on their therapeutic uses. (4+8+2)
- 3 a) Write abt the classification of anti depressant aents. Write in detail abt the mechanism of action, therapeutic uses and adverse reactions of Selective Serotonin Receptors Inhibitors (SSRIs). (6+ 8)
- OR**
- b) Classify anti epileptic aents and explain th e mechanism of action and therapeutic uses of Sodium Valproate and Phenytoin. (2+6+6)
- 4 a) Define hypertension. Classify the antihypertensive aents with examples. Write abt the mechanism of action and adverse reactions of ACE inhibitors and Calcium channel blockers. (2+6+6)
- OR**
- b) What is bronchial asthma? Classify anti asthmatic drus. Explain the pharmacology of any two drus. (2+4+8)
- 5 a) Define Diuresis. Classify Diuretics and explain mechanism of action and therapeutic uses of loop diuretics and potassium sparing diuretics. (2+4+8)
- OR**
- b) Write abt the mechanism of a ction and therapeutic uses of pantaprazole. (4)
 - c) Write short note on: (10)
 - (i) Anti emetic aents
 - (ii) Laxatives
