

FACULTY**B. Pharmacy 3/4 I Semester (Suppl.) Examination, May 2017****Subject : Pharmacology I****Time : 3 Hrs****Max. Marks: 70****Note: Answer all questions. All questions carry equal marks.**

- 1 (a) What are different routes of drug administration? Compare the merits and demerits of oral and parenteral routes of administration. (8)
- (b) Define the following: (6)
- (i) Therapeutic Index
 - (ii) Biological Half life
 - (iii) Synergism

OR

- (c) Define and classify the receptors. Explain in detail about protein coupled receptors. (2+3+5)
- (d) Write short notes on LD₅₀ and ED₅₀. (4)
- 2 (a) Explain the pharmacological effects and therapeutic uses of : (14)
- (i) Physostigmine
 - (ii) Atropine
 - (iii) Propranolol
 - (iv) Hyoscine

OR

- (b) Classify the adrenergic agents 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 about the classification of anti-depressant agents. Write in detail about the mechanism of action, therapeutic uses and adverse reactions of SSRIs. (6+8)
- OR**
- (b) Define Parkinsonism. Classify anti-Parkinson's drugs with examples? Write the mechanism of action and therapeutic uses of COMT inhibitors and MAO inhibitors. (2+6+6)
- 4 (a) Define arrhythmias. Classify the anti-arrhythmic agents. Discuss the pharmacology of any two drugs of different classes. (2+6+6)
- OR**
- (b) What is bronchial asthma? Classify anti-asthmatic drugs. Explain the pharmacology of any two drugs. (2+4+8)

- 5 (a) Define Diuresis. Classify Diuretics and explain mechanism of action, adverse reactions and therapeutic uses of carbonic anhydrase inhibitors and potassium sparing diuretics. (2+5+7)

OR

- (b) Write about the pharmacology of Puratives. (6)
- (c) Write the mechanism of action and therapeutic uses of following drugs: (8)
- (i) Ondansetron
 - (ii) Pantoprazole
