

FACULTY**B. Pharmacy 3/4 I Semester (Suppl.) Examination, April 2018****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? Explain the merits and demerits of oral and parenteral routes of administration. (2+6)
- (b) Define the following: (6)
- (i) Therapeutic Index
 - (ii) Biological Half life
 - (iii) Tachyphylaxis

OR

- (c) Define and classify the receptors. Explain in detail about ion channel linked receptors. (2+5)
- (d) Write about different types of Phase I reactions. (7)
- 2 (a) Explain the pharmacological effects and therapeutic uses of : (5+5+4)
- (i) Prazosin
 - (ii) Atropine
 - (iii) Propranolol

OR

- (b) Classify the cholinergic agents with examples. Write their actions on : (4+8+2)
- (i) Heart, (ii) Bronchioles, (iii) Intestine and (iv) Eye.
- Add a note on their therapeutic uses.

- 3 (a) Write about the classification of antidepressant agents. Write in detail about the mechanism of action, therapeutic uses and adverse reactions of tricyclic antidepressants. (6+8)

OR

- (b) Classify anti-epileptic agents and explain the mechanism of action and therapeutic uses of any three classes of drugs. (5+9)

- 4 (a) Define Hyperlipidemia. Classify the anti-hyperlipidemic agents. Discuss the mechanism of action and therapeutic uses of any two drugs of different classes. (2+4+8)

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 furosemide and spironolactone. (2+6+6)

OR

- (b) Write short notes on the pharmacology of: (7+7)
- (i) H₂ receptor blockers
 - (ii) Anti-diarrhoeals
