

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

- 1 a) Write about various phase – I biotransformation reactions with examples. 8  
b) Define the following :  
i) Synergism ii) Biological Half life iii) Tolerance 6  
**OR**  
c) Explain in detail about the advantages and disadvantages of different routes of drug administration. 14
- 2 a) Classify cholinergic agents and explain the pharmacological effects of acetylcholine. 4+5  
b) Explain the various therapeutic uses and adverse reactions of Atropine. 5  
**OR**  
c) Explain the mechanism of action and therapeutic uses of the following : 14  
i) Adrenaline ii) Propranolol iii) Physostigmine  
iv) Hyoscine
- 3 a) Classify anti-epileptic agents and explain the mechanism of action, adverse reactions and therapeutic uses of any three classes of drugs. 5+9  
**OR**  
b) Write the classification of Non-steroidal anti-inflammatory agents and explain the details of any three classes of drugs. 5+9
- 4 a) Define hypertension. Classify the anti-hypertensive agents with examples. Write about the mechanism of action and adverse reactions of angiotensin receptor blockers and calcium channel blockers. 2+6+6  
**OR**  
b) Write short notes on : 7+7  
i) Bronchodilators  
ii) Drugs used in the treatment of shock
- 5 a) Classify the agents used in treatment of peptic ulcer disease. Write about the pharmacological actions and therapeutic uses of Omeprazole and Ranitidine. 4+6  
b) Write short notes on carbonic anhydrase inhibitors. 4  
**OR**  
c) Write about the following : 7+7  
i) Anti-diarrhoeal agents  
ii) Anti-emetic agents

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