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Code No. 13259 / Non-CBCS
FACULTY OF PHARMACY
B. Pharmacy 3/4-Year I-Semester (Non-CBCS)(Backlog) Examination, August 2019

## Subject : Pharmacology - I

Time : 3 Hours
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.
b) Define the following:
(i) Therapeutic Index
(ii) Tolerance
(iii) Biological Half life

## OR

c) Define and classify the receptors. Explain in detail about G-protein coupled receptors
d) Write short notes on $\mathrm{LD}_{50}$ and $E D_{50}$

2 a) Explain the pharmacological effects and therapeutic uses of:
(i) Physostigmine
(ii) Atropine
(iii) Propronolol
(iv)Prazosin

## OR

b) Classify the Cholinergic agents with examples. Write their actions on
(i) Heart, (ii) Bronchioles, (iii) Intestine and (iv) Eye.

Add a note on their therapeutic uses.
3 a) Write about the classification of anti-depressânt agents. Write in detail about the mechanism of action, therapeutic uses and adverse reactions of Selective Serotonin Receptors Inhibitors (SSRIs).

## OR

b) Classify anti-epileptic agents and explain the mechanism of action and therapeutic uses of Sodium Valproate and Phenytoin.

4 a) Define hypertension. Classify the antihypertensive agents with examples. Write about the mechanism of action and adverse reactions of ACE inhibitors and Calcium channel blockers.

## 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 and therapeutic uses of loop diuretics and potassium sparing diuretics.

## OR

b) Write about the mechanism of action and therapeutic uses of pantaprazole.
c) Write short note on:
(i) Anti-emetic agents
(ii) Laxatives

## Pharmacy

