

B PHARM
(SEM IV) THEORY EXAMINATION 2022-23
PHARMACOLOGY-1 THEORY

Time: 3 Hours

Total Marks: 75

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt all questions in brief. 10 x 2 = 20

- (a) Define drug tolerance. Explain with example.
- (b) What is enzyme inhibition? Give one example of enzyme inhibitors
- (c) What do you mean by regulation of receptors?
- (d) Define dose response relationship.
- (e) What is co-transmission of neurotransmitter?
- (f) What is mechanism of action of local anaesthetics?
- (g) What are pre-anaesthetics agents? Explain with example
- (h) Give drug interaction between MAO inhibitors and sympathomimetic Drugs
- (i) What are hallucinogens. Give two examples.
- (j) Differentiate between partial agonist and inverse agonist. Explain with example

SECTION B

2. Attempt any twoparts of the following: 2 x 10 = 20

- (a) What is signal transduction. Discuss in detail JAK-STAT binding receptors.
- (b) Explain in detail factors modifying drug action.
- (c) Classify sympathomimetic drugs. Give pharmacological action, adverse effect and uses of Adrenaline

SECTION C

3. Attempt any fiveparts of the following: 7 x 5 = 35

- (a) Elaborate drug used in treatment of Glaucoma
- (b) Explain in detail G-protein coupled receptor.
- (c) Describe the Principle and mechanism of action of drug
- (d) Describe Neurohumoral transmission in ANS
- (e) Classify Antiepileptics. Give pharmacological action, adverse effect and uses of Phenytoin
- (f) Discuss various routes of drug administration. Elaborate advantage and disadvantage of Oral route.
- (g) Classify Anti-parkinsons Drugs. Give mechanism of action, pharmacological action, adverse effect and uses of levodopa.