

B PHARM
(SEM-IV) THEORY EXAMINATION 2018-19
PHARMACOLOGY-I

Time: 3 Hours

Total Marks: 75

Note: 1. 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 Cross Tolerance with example.
 - b. What is the effect of acidification of urine on excretion of acidic and basic drugs?
 - c. Explain the effect of competitive antagonist on dose-response curve for an agonist.
 - d. Differentiate Adverse event (AE) and Adverse drug reaction (ADR).
 - e. Why atropine is contraindicated in glaucoma?
 - f. Write the clinical uses of Glycopyrrolate and Isosuxaprine.
 - g. Differentiate MAO-A and MAO-B inhibitors with examples.
 - h. Why Preanesthetic medication is necessary during surgery?
 - i. What are extrapyramidal side effects?
 - j. Differentiate natural and acquired tolerance.

SECTION B

- 2. Attempt any two parts of the following:** **2 x 10 = 20**
- a. Discuss different factors modifying drug action.
 - b. Classify sympatholytics. Discuss the pharmacology of Adrenaline.
 - c. Write the classification of antiepileptic drugs. Explain the mechanism of action of any four anti-epileptic drugs.

SECTION C

- 3. Attempt any five parts of the following:** **7 x 5 = 35**
- a. What do you mean by Apparent volume of distribution? Explain carrier-mediated drug transport in brief.
 - b. Give a detail account on essential drugs concept.
 - c. Write a note on combined effects of drugs.
 - d. Discuss the mechanism of action, uses and side effects of D-Tubocuraine.
 - e. Write a note on Neurohumoral transmission in the C.N.S.
 - f. Write down the classification of antiparkinsonian drugs. Why anti-cholinergics are used in the management of Parkinson's disease?
 - g. Discuss the pharmacology of chlorpromazine in detail.

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B. PHARM
(SEM-IV) THEORY EXAMINATION, 2019-20
PHARMACOLOGY-I

Time: 3 Hours

Total Marks: 75

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. **Attempt all questions in brief.** 10 x 2 = 20
- Define Tachyphylaxis with example.
 - What do you mean by Plateau principle in Pharmacokinetics?
 - Write the significance of STAT in JAK-STAT signaling.
 - What is Phase 0 clinical trial?
 - What do you mean by Cotransmission?
 - Write the clinical uses of Ritodrine and Salbutamol.
 - Write the mechanism of action of Vigabatrin.
 - What is diffusion hypoxia?
 - Write the mechanism of action of Tolcapone and Rasagiline.
 - What do you mean by drug dependence?

SECTION B

2. **Attempt any twoparts of the following:** 2 x 10 = 20
- What is Pharmacovigilance? Explain different phases of clinical trials in detail.
 - Discuss different pharmacological actions of acetylcholine in detail.
 - Classify peripherally-acting skeletal muscle relaxants. Write a note on pharmacology of Lidocaine.

SECTION C

3. **Attempt any fiveparts of the following:** 7 x 5 = 35
- Explain various routes of drug administration in detail.
 - What is biotransformation? Describe the significance of plasma protein binding.
 - Explain signal transduction mechanisms in G-protein-coupled receptor signaling.
 - Discuss the mechanism of action, uses and side effects of Propranolol.
 - Classify Sedatives. Write down the differences between benzodiazepines and barbiturates.
 - Write a short note on Nootropics.
 - Write down the classification of antidepressants and anti-anxiety agents.