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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.

 $10 \times 2 = 20$ 

- a. Define Tachyphylaxis with example.
- b. What do you mean by Plateau principle in Pharmacokinetics?
- c. Write the significance of STAT in JAK-STAT signaling.
- d. What is Phase 0 clinical trial?
- e. What do you mean by Cotransmission?
- f. Write the clinical uses of Ritodrine and Salbutamol.
- g. Write the mechanism of action of Vigabatrin.
- h. What is diffusion hypoxia?
- i. Write the mechanism of action of Tolcapone and Rasagiline.
- j. What do you mean by drug dependence?

#### **SECTION B**

### 2. Attempt any *two* parts of the following:

 $2 \times 10 = 20$ 

- a. What is Pharmacovigilance? Explain differentphases of clinical trials in detail.
- b. Discuss different pharmacological actions of acetylcholine in detail.
- c. Classify peripherally-acting skeletal muscle relaxants. Write a note on pharmacology of Lidocaine.

## **SECTION C**

### 3. Attempt any *five* parts of the following:

 $7 \times 5 = 35$ 

- a. Explain various routes of drug administration in detail.
- b. What is biotransformation? Describe the significance of plasma protein binding.
- c. Explain signal transduction mechanisms in G-protein-coupled receptor signaling.
- d. Discuss the mechanism of action, uses and side effects of Propranolol.
- e. Classify Sedatives. Write down the differences between benzodiazepines and barbiturates.
- f. Write a short note on Nootropics.
- g. Write down the classification of antidepressants and anti-anxiety agents.