Sub Code:BP404T

Paper Id: 910029 Roll No:

**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**

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?

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**SECTION B**

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