Roll No…….. **Total No. of Printed Pages: [01]**
Total No. of Questions: [13]

B. Pharmacy (Semester – 4th)
PHARMACOLOGY - I
Subject Code: BP-404T
Paper ID: [17170121]

Time: 03 Hours **Maximum Marks: 75**

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 9 questions of 5 marks each. The student has to attempt any 7 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A **(2 marks each)**

Q1. Attempt the following:
   a. Why there is a lag in the action of antidepressants?
   b. Explain the reason for cardiovascular events associated with coxibs.
   c. Define drug tolerance. Give two causes of drug tolerance.
   d. Differentiate between local anesthetics and general anesthetics.
   e. What are preanesthetic medications?
   f. Explain the neurobiology of drug addiction.
   g. Enlist the factors affecting bioavailability.
   h. Differentiate between naltrexone and naloxone.
   i. Define adverse drug reaction.
   j. What are microsomal enzymes?

Section – B **(5 marks each)**

Q2. Briefly explain synergism and antagonism with the help of examples.
Q3. Describe dopaminergic neurotransmission.
Q4. Discuss plasma protein binding concept and its therapeutic implications.
Q5. Explain the mechanism of action of the following:
   (a) Tramadol
   (b) Rivastigmine
Q6. Write a note on preanesthetic medication.
Q7. Write the clinical uses and adverse effects of anticholinergics.
Q8. Discuss the pharmacology of levodopa.
Q9. Explain the following:
   (a) Drug interaction between aspirin and probenecid
   (b) Extrapyramidal disturbances with haloperidol
Q10. Write a note on JAK-STAT receptors.

Section – C **(10 marks each)**

Q11. Classify antidepressants. Discuss the pharmacology of atypical antidepressants.
Q12. Write short notes on:
   a. Prazosin
   b. Clinical uses of beta blockers
Q13. (i) Enlist atypical antipsychotics and discuss about them.
   (ii) Write briefly about non benzodiazepine hypnotics.