Roll No…….. **Total No. of Printed Pages: [1]**
Total No. of Questions: [13]

M. Pharmacy (Pharmacology) (Semester: 1st)
ADVANCED PHARMACOLOGY-I
Subject Code: MPL 102T
Paper ID: [17250302]

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

Instruction for candidates:

1. Section A is compulsory. It carries 20 marks. It consists of 5 questions of 4 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 **(4 marks each)**

Q1. Attempt the following:
a) Explain the difference between linear and non-linear compartment models.
b) Describe the neurotransmitters- Adrenaline and its receptors
c) Write a brief note on narcotic and non-narcotic analgesics mention four examples each
d) Define anti-arrhythmics drugs classify them
e) Classify the opioied receptor.

Section – B **(5 marks each)**

Q2. What is the working principle of a GPCR?
Q3. Write short note on potassium sparing diuretic
Q4. Classify anti coagulants and explain the pharmacology of heparin
Q5. Brief note on digoxin toxicity and its management
Q6. Enlist various 5HT receptors and its antagonists.
Q7. Discuss the pharmacology of beta blocker
Q8. Brief notes on Significance of protein binding
Q9. Define antipsychotic drug, write the Pharmacology of Chlorpromazine.
Q10. Give the mechanism of action and therapeutic uses of antihistamines

Section – C **(10 marks each)**

Q11. Classify drugs used in the treatment of congestive cardiac failure; explain mechanism of action, pharmacological actions, therapeutic uses and adverse effects of cardiac glycosides.
Q12. Classify and enumerate anti-hypertensive drugs and explain the pharmacology of Phenytoin
Q13. Define the parasympatholytic agent, classify them and discuss the pharmacology of atropine.