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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.