(Advanced Pharmacology-I)
MODAL ANSWER PAPER

Q.No.1 **Attempt any five of the following (5 X 2)** **(10)**

a.) Give the difference between nicotinic and muscarinic receptor
   (Give at list 4 differences each ½ marks)

b.) Enlist the factors modifying drug action.
   (Give at list 5 factors)

c.) Define the term teratogenicity (Define **and example)**

d.) Define the term agonist and antagonist
   (Each definition 1 mark)

e.) Define the term neurotransmitter with examples.
   (Definition 1 marks example 1 mark)

f.) Compare between Parasympathetic and Sympathetic nervous system
   (Give at list 4 differences each ½ marks)

g.) Classify adrenergic drugs with examples
   (Classification with example 1 each)

Q.No. 2 **Attempt any two of the following: (2 X 5)** **(10)**

a.) Write the mechanism of action, therapeutic use and adverse effect of adrenalin
   (MOA:-3marks, therapeutic use and ADR each 1 mark)

b.) Explain different physiological barriers
   (Diagram for BBB:-2marks and explanation of other barriers 3 marks)

c.) Explain about Dopamine receptor
   (Diagram of receptor 2marks explanation 3marks)

Q.No. 3. **Attempt any one of the following. (1 X 10)** **(10)**

a.) Explain in detail about Metabotropic receptor
   Explain structure with diagram of G-protein receptor 3 marks
   List of different G-protein receptors-2marks
   Working of G-protein receptor Resting phase & activating Phase:-5marks

b.) Explain in detail the steps involved in neurotransmission and note on GABA
   receptor
   Diagram for neurotransmission 2 marks
   Explaining steps involved in Neurotransmission: - 3marks
   Structure of GABA receptor -2marks
   Explain working of GABA receptor-3marks