

Roll No.

Total No. of Pages : 01

Total No. of Questions : 08

PHD (Pharmacy)
PHARMACOLOGY

Time : 3 Hrs.

Max. Marks : 100

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1. What are main families of drug receptors? Give a detailed account of G-protein coupled receptors.
2. What is CPCSEA? Discuss critically about CPCSEA guidelines for the use of laboratory animals?
3. What are toxicity studies? Describe procedure to carry out sub-acute toxicity of a molecule.
4. Write notes on following :
 - a) Transgenic animals
 - b) Animal cell lines
5. What is ELISA? Indicate various types of ELISA and describe principle and procedure of sandwich ELISA along with applications of ELISA.
6.
 - a) Write a note on inflammatory mediators.
 - b) Add a note on immunotherapy.
7. Write notes on following :
 - a) PCR
 - b) Phases of clinical trials as per schedule Y.
8.
 - a) Write a note on principle and applications of RIA.
 - b) Add a note on short term regulation of cellular response.