

Total No. of Questions : 4]

SEAT No. :

P3994

[Total No. of Pages : 1

[5246]-222

M.Pharmacy (Semester - I & II)

TOXICOLOGY

(2013 Pattern) (Credit System)

Time : 3 Hours]

[Max. Marks : 50

Instructions to the candidates:

- 1) Question number one is compulsory.*
- 2) Figures to the right indicate full marks.*
- 3) Draw well labeled diagrams wherever necessary.*

Q1) Define Maximum Tolerable Dose. Write the principles of GLP as per OECD guidelines for preclinical toxicity testing. **[10]**

Q2) Answer **Any Three:** **[15]**

- a) Define idiosyncrasy, tachyphylaxis, habituation, synergism and Potentiation.
- b) Write in detail on the Northern Blotting Technique.
- c) Explain Cell Culture Techniques in toxicology.
- d) Management of Behavioral toxicity.

Q3) Write short notes **Any Three:** **[15]**

- a) Regulatory Toxicology.
- b) Management of Toxic Reaction in Human.
- c) Molecular Cloning.
- d) LD50.

Q4) Explain Preclinical toxicological requirement for Biological Product. **[10]**

OR

Write in detail about study design for Carcinogenicity Testing.

