

Subject Code: B134102/R13

IV B. Pharmacy I Semester Regular Examinations Nov. - 2016

BIO ASSAYS & TOXICOLOGY

Time: 3 hours Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B** Answering the question in **Part-A** is Compulsory, Three Questions should be answered from **Part-B**

PART-A

- 1. (a) Define bioassay. Write the principle involved in bioassay.
 - (b) Write short notes on tetanus and its prevention.
 - (c) Write short notes on xenobiotics.
 - (d) Write short notes on acute oral toxicity.
 - (e) Explain the general principles of toxicology in the treatment of poisoning.
 - (f) Write short notes on acute pesticide intoxication.

[4+3+4+3+4+4]

PART-B

- 2. (a) Write the importance of bioassay.
 - (b) Elucidate the Methods of Bioassay for Agonists.

[4+12]

- 3. (a) Explain the principles and procedures involved in bioassays of Insulin.
 - (b) How is posterior pituitary extract standardised for "oxytocic" activity?

[10+6]

- 4. (a) Write a brief note on scope, principles, mechanisms and risk assessment in toxicology.
 - (b) Write short notes on toxicokinetics.

[10+6]

- 5. (a) Write the methods to determine LD_{50} .
 - (b) Define carcinogenicity. Explain the mechanisms of action of chemical carcinogens.

[6+10]

- 6. (a) Write the Signs, symptoms, treatment of acute and chronic poisoning of heavy metals.
 - (b) Explain the toxic responses of liver.

[7+9]

- 7. (a) Discuss the toxic effects of plants and its treatment strategies.
 - (b) What are the harmful effects of solvents?

[10+6]
