

M.Sc.(Zoology) Fourth Semester Old
MSC14 - Toxicology & Bioinformatics Paper-II

P. Pages : 1

Time : Three Hours



GUG/W/18/2433

Max. Marks : 80

- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labelled diagrams wherever necessary.

1. Describe scope of toxicology and principles of testing for toxic effects. **16**

OR

Describe the following.

- a) Metabolism and excretion of toxicants. **16**
- b) Mechanism of toxicity-receptor concept.

2. Describe brief, the physiological and biochemical impact of toxicants on aquatic fauna. **16**

OR

Attempt the followings:

- a) Environmental toxicants-Automobile emission. **16**
- b) Potential toxicants of foodstuff.

3. Describe in detail, scope of bioinformatics in the field of research and business. **16**

OR

- a) Content and structure of databases. **16**
- b) Bioinformatics and internet.

4. Explain phylogenetics analysis of tree styles and tree building method. **16**

OR

- a) PSI-BLAST. **16**
- b) Protein databases.

5. Attempt the followings.

- a) Metabolism of toxicants. **16**
- b) Radioactive substances-environmental toxicants.
- c) Current status of bioinformatics in India.
- d) Protein domain family.
