

M.Sc.(Zoology) CBCS Pattern Semester-IV
**PSCZOOT13 - Paper-XIII - Biotechniques, Biostatistics, Ethology,
Toxicology and Bioinformatics**

P. Pages : 1

Time : Three Hours



GUG/W/23/11427

Max. Marks : 80

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

1. Write an account on Sterilization Techniques. 16

OR

Write notes on:

- a) Thin Layer Chromatography. 8
- b) Cryopreservation of Cells 8

2. Write an account on Animal ethics Concept, Organization and Their Functions. 16

OR

Write notes on:

- a) Significance Tests. 8
- b) Dispersion and Variance. 8

3. Write an account on Environmental Toxicants Pesticides and Fertilizers. 16

OR

Write notes on:

- a) Biotransformation and Excretion of toxicants. 8
- b) Antidotal Therapy 8

4. Write an account on Tree Style and Tree Building Methods. 16

OR

Write notes on:

- a) Scope of Bioinformatics. 8
- b) Basic Local Alignment Search Tool (B.L.A.S.T.) 8

5. Attempt the following. 16

- a) Cell lines
- b) Probability Distribution
- c) Chronic Toxicity Tests
- d) Sequence Alignment
