

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

P. Pages : 1

Time : Three Hours



GUG/S/25/11427

Max. Marks : 80

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

1. Give details basic principals of sedimentation and centrifugation. 16

OR

- a) Thin layer chromatography.
- b) Tissue culture.

2. Right an essay on different components in development of animal behaviour. 16

OR

- a) Dispersion and variance.
- b) Types of probability.

3. Right an account on translocation of toxicants. 16

OR

- a) Heavy metals and trace metals.
- b) Antidotal therapy.

4. Introduction and scope of bioinformatics. 16

OR

- a) Biological Database.
- b) Sequence alignments.

5. Attempt the following. 16

- a) Cryopreservation.
- b) Standard deviation.
- c) Pesticide and fertilizers.
- d) Tree style.
