

M.Sc. (Zoology)(with Credits)-Regular-Semester 2012 Sem IV
MSc2411 / MSC13 : Biotechniques, Biostatistics and Ethology Paper-I

P. Pages : 1

Time : Three Hours



GUG/S/18/5807

Max. Marks : 80

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- Notes : 1. All questions are compulsory.
2. All questions carry equal marks.
3. Illustrate your answer with well labelled diagram. wherever necessary.

1. Describe the process of animal cell culture. **16**

OR

Write notes on

- Microbial culture media.
- Cryopreservation of cell

2. Describe isotope techniques and autoradiography in biology. **16**

OR

Write notes on

- T.L.C.
- Gel electrophoresis.

3. Explain the basic theory and types of probability. **16**

OR

Write notes on

- Binomial and Normal distribution
- Sampling types.

4. Describe the neuronal control of animal behavior. **16**

OR

Write notes on

- Navigation and Homing
- Concept and organization for animal ethics.

5. Attempt the following. **16**

- Autoclave
- Half life period
- Cumulative frequency
- Orientation
