

B.Sc. Final (CBCS Pattern) Semester - VI
USCZOT15 - Zoology-III : Microtechnique, Bioinformatics and Biostatistics

P. Pages : 1

Time : Three Hours



GUG/S/23/13372

Max. Marks : 50

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

1. Write an account on Image Processing Methods in Microscopy. 10
- OR**
- a) Transmission Electron Microscopy. 5
- b) Chemical Fixation. 5
2. Write an account on Types of Microtomes. 10
- OR**
- a) Types of Fixatives 5
- b) Section Cutting 5
3. Write in detail about Bioinformatics Tool BLAST. 10
- OR**
- a) Protein Sequence Database. 5
- b) Human Genome Project. 5
4. Write an account on students 'T' Test. 10
- OR**
- a) Measures of Dispersion. 5
- b) Chi Square Test 5
5. Write in 4 or 5 lines **any ten**. 10
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|------------------------------|-------------------------|
| i) Phase Contrast Microscopy | ii) Glutaraldehyde |
| iii) Freeze Fracture | iv) Narcotization |
| v) Embedding | vi) Haematoxyline |
| vii) FASTA | viii) Cladistics method |
| ix) Uniport | x) Standard Deviation |
| xi) Poisson Distribution | xii) Sampling error |
