

B.Sc. (CBCS Pattern) Semester-VI
**USCZOT15-DSE Core Paper-XV - Zoology Paper-III : Microtechnique,
Bioinformatics and Biostatistics**

P. Pages : 1

Time : Three Hours



GUG/W/24/13372

Max. Marks : 50

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

1. Write an account on structure and working of Transmission Electron microscope. **10**

OR

 - a) Object measurement **5**
 - b) Freeze-fracture in Electron Microscopy. **5**
2. Describe in detail structure and working of Rocking Microtome. **10**

OR

 - a) Types of fixatives. **5**
 - b) Histochemical Demonstration of Carbohydrates. **5**
3. Write an account on Biological Databases. **10**

OR

 - a) Phylogenetic Analysis. **5**
 - b) Human Genome Project. **5**
4. Write an account on Probability and Probability Distribution. **10**

OR

 - a) Correlation and correlation coefficient. **5**
 - b) Measures of Central Tendency. **5**
5. Write four or five lines on each **any ten**. **10**
 - i) Fluorescence microscopy.
 - ii) Glutaraldehyde.
 - iii) Holotomography.
 - iv) Narcotization and killing.
 - v) Haematoxyline.
 - vi) Double Staining.
 - vii) BLAST
 - viii) PFAM
 - ix) SWISS PROT
 - x) Pie charts
 - xi) SD
 - xii) T Test
