

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

P. Pages : 1

Time : Three Hours



GUG/W/23/13372

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 in detail about different fixation techniques for electron microscopy. 10

OR

- a) Write an essay on resolving power of microscopes. 5
b) Give an account on scanning electron microscope. 5

2. Write an essay on section cutting. Add note on difficulties in section cutting. 10

OR

- a) Write a short note on histochemical demonstration of carbohydrates. 5
b) Give an account on haematoxyline-eiosin staining. 5

3. Explain Human Genome Project. 10

OR

- a) Write a note on importance of bioinformatics. 5
b) Biological databases. 5

4. Write an essay on student T-test. 10

OR

- a) Write a note on standard error and standard deviation. 5
b) Give an account on Mean, Mode, Median. 5

5. Write four to five lines on following **any ten**. 10

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|------------------------|----------------------|
| i) Electron Microscope | ii) Image Processing |
| iii) Glutaraldehyde | iv) Bouin's fixative |
| v) Section cutting | vi) Sudan black |
| vii) Uniport | viii) BLAST |
| ix) SCOP | x) Histogram |
| xi) Probability | xii) Chi-square test |
