

M.Sc. (Biotechnology) (CBCS Pattern) Semester-IV
PSBIT-116 - Paper-IV : Research Methodology and Biostatistics

P. Pages : 1

Time : Three Hours



GUG/W/24/11354

Max. Marks : 80

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

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|-----------|---|-----------|
| 1. | Describe in detail about concepts research design and their types. | 16 |
| OR | | |
| | i) Discuss in detail steps in research process. | 8 |
| | ii) Describe in detail motivation in research. | 8 |
| 2. | Describe in detail various techniques of sampling. | 16 |
| OR | | |
| | i) Describe primary and secondary sources of data. | 8 |
| | ii) Discuss qualitative and quantitative descriptive research. | 8 |
| 3. | Describe in details measures of dispersion by range, mean deviation and standard deviation. | 16 |
| OR | | |
| | i) Give the account of probability. | 8 |
| | ii) Discuss in detail measures of central tendency. | 8 |
| 4. | Describe in detail cluster analysis by phylogenetic clustering by simple matching coefficients. | 16 |
| OR | | |
| | i) Discuss the concept of chi-square test. | 8 |
| | ii) Describe in detail tabulation for presentation of statistical data. | 8 |
| 5. | Write short notes. | |
| | i) Objective of research. | 4 |
| | ii) Descriptive methodology. | 4 |
| | iii) Standard error | 4 |
| | iv) Histogram | 4 |
