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BSH 452

II Semester M.Sc. Degree Examination, Sept./Oct. 2022

BIOSCIENCES

Biostatistics and Bioinformatics

Time : 3 Hours

Max. Marks : 70

Write short notes on **any four** of the following :

(4×4=16)

1. a) Measures of central tendency.
- b) Binomial distribution.
- c) Multiple regression.
- d) Correlation coefficient.
- e) NCBI.
- f) GCG wisconsin package.

Write explanatory notes on **any five** of the following :

(5×6=30)

2. Graphical representation of data.
3. Sampling techniques.
4. Probability distribution.
5. Statistical packages.
6. Scope of bioinformatics.
7. Distributed computing.
8. Molecular docking.

Write essays on **any two** of the following :

(2×12=24)

9. What are the tools used for studying protein folding ?
10. Calculate standard deviation for the following data recorded on number of pods in pea plant.

No. of Pods/Plant	7	8	9	10	11	12
No. of Plant	5	9	14	16	13	7

11. Explain about nucleotide sequence databases and how they are maintained and retrieved by researchers.