

Paper / Subject Code: BOD102 / Botany - Research Methodology ,Bioinformatics & Biostatistics.

BOD 102

Total No. of Printed Pages:1

**B.Sc. (CBCS) (Semester-V)
EXAMINATION NOVEMBER 2022**

Botany

Research Methodology, Bioinformatics & Biostatistics

[Duration : 2 Hours]

[Total Marks : 60]

Instructions:

- 1) All questions are compulsory; however internal choice is available.
- 2) Briefly answer sub-questions in question 1 and question 2.
- 3) Figures to the right indicate maximum marks to the question/sub question.
- 4) Draw appropriate labeled diagrams wherever necessary.

Q.1 Answer **any three** of the following:

12

- a. How are photographs prepared for a research report?
- b. What general rules are borne in mind while drawing a "Table" for a research report?
- c. What are the aims of Bioinformatics?
- d. Differentiate between primary and secondary data.
- e. Differentiate between Mean and Mode.

Q.2 Write short notes on **any three** of the following:

12

- a. Fire Hazards
- b. Plagiarism
- c. Nucleotide Database
- d. Median
- e. Chi square

Q.3 A. Why is literature review necessary?

6

OR

A. How is citation of references in the text carried out?

6

B. How do you maintain cleanliness of the Laboratory?

6

Q.4 A. What is database? Add a note on need of biological database.

6

OR

A. What are the resources at PIR?

6

B. Write a note on Structural Bioinformatics Drug discovery

6

Q.5 A. Write a note on Student 't' test

6

OR

A. Differentiate between correlation and regression.

6

B. Discuss any three methods of presentation of Data.

6