

19. Elaborate in detail about the historical background, biosafety issues in biotechnology and the recommended biosafety levels for infected animals.
 20. Give a detailed note on the National regulations and the International agreements on biosafety guidelines including Cartagena protocol.
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S.No. 3106

16 SCCBT 7

(For candidates admitted from 2016–2021 Batch)

B.Sc. DEGREE EXAMINATION, NOVEMBER 2023.

Part III — Biotechnology — Major

BIostatistics and Biosafety

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20)

Answer ALL the questions:

1. What is correlation?
2. State the definition of mean with formula.
3. What are variables?
4. State the types of diagrams used for data representation.
5. Define the term HYPOTHESIS.
6. State the use of Biological Safety Cabinets.
7. What are the uses of sampling in statistics?
8. What are infectious agents?

9. Abbreviate: GMO and state the definition.

10. Abbreviate: PPE and state its need.

SECTION B — ($5 \times 5 = 25$)

Answer ALL questions, choosing either (a) or (b).

11. (a) Give a brief note on data collection and its merits and demerits.

Or

(b) Explain in detail about sampling and its design and essential in statistics.

12. (a) Illustrate in detail about the measures of dispersion.

Or

(b) Elaborate in detail about the methods of correlation.

13. (a) Explain in detail about the sampling distribution.

Or

(b) Provide a brief note one-way ANOVA.

14. (a) Give a detailed note about the primary containment of biohazards.

Or

(b) Give a detailed note on the required Biosafety levels for microorganisms.

15. (a) Explain in detail about applications of GMO in agriculture.

Or

(b) Elaborate in detail about the National Biosafety guidelines and regulations.

SECTION C — ($3 \times 10 = 30$)

Answer any THREE questions.

16. Illustrate in detail about methods of sampling and the test of reliability in sampling.

17. Give a complete study on the REGRESSION and their similarities and dissimilarities with correlation.

18. Explain in detail about the tests of significance.