



PR-1603120602040400 Seat No. _____

M. Sc. (Biochemistry) (Sem. IV) (CBCS) Examination

August - 2020

EBC - 4 : Research Methodology

Time : Hours]

[Total Marks : 70

1 Answer the questions : (Any Seven) 14

- (1) What is error?
- (2) Explain Research proposals
- (3) How the problem is defined in research?
- (4) What is research hypothesis?
- (5) What is the simulation modeling?
- (6) Applications of Google scholar in research?
- (7) What is ANOVA?
- (8) Enlist the tools which are used in generating charts.
- (9) Write down the types of research.
- (10) Principle of blocking for design of experiment.

2 Give the answer of following questions : (Any Two) 14

- (1) Explain in detail significance about review, research articles and literature survey in research.
- (2) What are the major differences between Heuristic and Simulation modeling.
- (3) Define analysis of variance components.

3 Give the answer of following questions :

- (1) Enlist the various features of statistical data analysis in spreadsheet tools. Explain any two in detail. **7**
- (2) Write detail notes on research design process. **7**

OR

- (1) Explain the degree of freedom with example. **7**
- (2) Justify relation between the research problems with objectives along example. **7**

- 4 Give the answer of following questions : 14
- (1) Explain in detail about MS-Powerpoint.
 - (2) Write importance of abstract, introduction, material and methods, results, discussion and conclusion along with plagiarism in research paper writing.
- 5 Give the answer of following questions : (Any **Two**) 14
- (1) Explain in detail Factorial experimental design
 - (2) Mention the Role of world wide web and internet in research.
 - (3) Explain the principal model components
 - (4) Describe the importance of impact factors, citation in h index in research.
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