



DM-1603120602040400 Seat No. _____

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

March – 2022

EBC - 4 : Research Methodology

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 Answer briefly any seven of the following questions : 14

- (a) Define research hypothesis.
- (b) What is Error?
- (c) What is the simulation Modeling?
- (d) What is importance of random sampling in research?
- (e) How the problem is defined in research?
- (f) Principle of blocking for design experiment.
- (g) Write significance of ANOVA
- (h) What do you understand by standard deviation?
- (i) Name the research engines you would use for search of specific research papers.
- (j) Describe use of Microsoft Excel.

2 Answer any two of the following questions : 14

- (a) Write short note on literature survey and its importance in research
- (b) Discuss formats of publications of research
- (c) Write in detail about the research design process.

3 (A) Write note on replication and reproducibility of research and its importance 7

(B) Discuss research modeling and types of models in details. 7

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[Contd....

- (C) Write a note on thesis writing 7
- (D) Discuss about the ANOVA. 7
- 4 Answer the following questions : 14
- (a) Write note on Model Adequacy checking
- (b) Explain about the Confidence interval, Error of squares, Degree of Freedom.
- 5 Answer the following questions : (Any Two) 14
- (a) Describe the features for statistical data analysis.
- (b) Mention the role of www and internet in research
- (c) Write about the introduction, presentation, features and functions creating presentation tools
- (d) Describe Research paper v/s Review paper as a researcher.
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