



**MAV-3509** Seat No. \_\_\_\_\_

**M. Sc. (Sem. III) Examination**  
**October / November - 2018**  
**Mathematics : Paper - MCB - III**  
**(Research Methodology)**

Time : Hours] [Total Marks : 35

**Instructions :** (1) All question are compulsory and carries equal marks.  
(2) Follow standard notations and conventions.

**1** Answer any **two** : **7**

- (a) Write short note on design of the research project.
- (b) Differentiate search and research. Then explain steps of Research Methodology.
- (c) Write a note on relevance of research in different filed of Science.

**2** Answer any **two** : **7**

- (a) Describe Probability distribution.
- (b) Explain' Baye's theorem with example..
- (c) Different between primary data and secondary data collection.

**3** Answer any **two** : **7**

- (a) Explain the meaning of analysis of variance.
- (b) Describe Chi-square test and explain its applications.
- (c) Different between Simple Hypothesis and composite Hypothesis.

4 Answer any **two** :

7

- (a) Write short note on the techniques of writing report.
- (b) How create a research paper?
- (c) What are criteria of good research?

5 Answer any **five** :

7

- (a) What is Linear Regression?
- (b) What is research problem?
- (c) What is error? Define Standard error.
- (d) What is Variable?
- (e) What is poisson distribution ?
- (f) What is Chi-square test ?
- (g) How to use of Computer in project work?