



HEF-003-1541001 Seat No. _____

M. Phil. (Zoology) (Sem. I) (CBCS) Examination

December – 2017

ZOOL - 101 : Research Methodology

Faculty Code : 003

Subject Code : 1541001

Time : Hours]

[Total Marks : 100

1 Answer the following : (any eight) 2.5x8=20

- (a) Define scientific Research
- (b) What is Impact Factor?
- (c) What are the major sources of scientific literature?
- (d) What is partial correlation analysis?
- (e) What is the difference between sample mean and population mean?
- (f) What is Hypotheses?
- (g) What is the use of statistics in scientific research?
- (h) Distinguish between 'sd' and 'cv'
- (i) What is 'Objectives' of the research?
- (j) What is F ratio, 'r', 't' and 'df' ?

2 Answer the following : (any two) 2x10=20

- (a) Describe different types of research literature and their availability.
- (b) What is the process for Identifying the Problem in research?
- (c) What are the 'Typical designs and features in experimental design'?

3 Answer the following : **2x10=20**

- (a) Describe the importance of Hypotheses in research.
- (b) Write a note on various aspects of Thesis writing.

OR

3 Answer the following : **2x10=20**

- (a) Discuss various aspects of research paper writing.
- (b) Describe Reference Index and Database Generation processes of review of literature.

4 Answer the following : **2x10=20**

- (a) What is bivariate Regression Analysis? Describe the steps involved in it.
- (b) Distinguish between Paired and Unpaired 't' test with suitable example.

5 Answer the following : (any **two**) **2x10=20**

- (a) What is the difference between 't' test and ANOVA? Explain giving examples.
- (b) Describe various steps and uses of PowerPoint presentation in research.
- (c) What is Chi-Square Test? Describe giving suitable example.
- (d) Describe the importance of data analysis in research.
