

4500

BBA (Semester-IV) Examination, 2024

RESEARCH METHODOLOGY

[Paper : Tenth]

Time : Two Hours]

[Maximum Marks : 75

Note: This question paper is divided into three sections A, B and C. Follow instructions given in each section. Section A, B and C are of 9, 36 and 30 marks, respectively. The candidates are required to answer only in serial order. If there are many parts of a question, answer them in continuation.

SECTION-A**(Very Short Answer Type Questions)**

Note: This section contains only one question which consists of five sub-questions. Each sub-question carries 3 marks. Attempt **any three** sub-questions from this section. Answer each sub-question in about 50 words.

[3x3=9]

1. (a) What is Research Hypothesis?
- (b) What is Research Design? Write features of good research design.
- (c) Explain type of Research on the basis of Purpose of Study.
- (d) What is 'F' Test?
- (e) What do you mean by Dependent and Independent variables?

SECTION-B**(Short Answer Type Questions)**

Note: This section contains only one question which consists of seven sub-questions. Each sub-question carries 9 marks. Attempt **any four** sub-questions from this section. Answer each sub-question in about 225 words. [9x4=36]

- (a) What is measurement in research? Discuss the measurement scales.
- (b) Discuss the precautions for writing research reports.
- (c) What is Data Processing? Explain different steps involved in data processing.

- (d) What is Chi-Square Test? Discuss various applications of Chi-Square test.
- (e) What is research? Discuss various stages in research process.
- (f) What is Confidence Interval? Construct a 95% confidence interval for the mean age of employees of a firm from a random sample of 49 employees with mean age 40 years and 14 years standard deviation.
- (g) A research methodology teacher claims that the mean score of his students is greater than 83 with a standard deviation of 27. A researcher wants to test the claim at 5% significance level. He collects the sample of 81 students with a mean score of 90. Develop suitable hypothesis and test for the claim.

SECTION-C

(Long Answer Type Questions)

Note: This section contains only one question which consists of **four** sub-questions. Each sub-question carries **15** marks. Attempt **any two** sub-questions from this section. Answer each sub-question in about **475** words. [15x2=30]

3. (a) What is Research Problem? Discuss the technique involved in defining a problem.
- (b) What is Probability sampling? Under what circumstances stratified sampling design is considered appropriate? Explain the stratified sampling method with an example.
- (c) What is Research Report. Explain various types of Research Report. Explain various components of a Research Report.
- (d) Two researchers adopted different sampling techniques while investigating the same group of students to find their intelligence levels. The results are as given below :

Researcher	Below Average	Average	Above Average	Total
A	86	65	49	200
B	40	33	27	100

Test at 5% significance level whether the sampling techniques adopted by two researchers are significant different. (Critical value of Chi-Square (at 5% significance level) = 3.841, 5.991 and 7.815 at 1, 2 and 3 degrees of freedom).