

13. Two random samples were drawn from two normal populations and their values are :

X_1	66	67	75	76	82	84	88	90	92		
Y_2	64	66	74	78	82	85	87	92	93	95	97

Test whether the two samples have the same variance at 5% level significance.

($F = 3.11$ at 5% level for $V_1 = 8$ and $V_2 = 10$)

MP-202/MP-302 (Old)

December – Examination 2022

Master of Business Administration (IInd Year) Examination

Research Methodology

Paper : MP-202/MP-302 (Old)

Time : 3 Hours]

[Maximum Marks : 80

Note :- The question paper is divided into three Sections A, B and C. Write answers as per the given instructions.

Section-A

8×2=16

(Very Short Answer Type Questions)

Note :- Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 2 marks.

1. (i) Define Research.
- (ii) What is descriptive research ?

- (iii) Give any *two* problems of preparing a scale.
- (iv) What is secondary data ?
- (v) Give any *two* uses of analysis of variance.
- (vi) What is a Hypothesis ?
- (vii) What does personal interview refer for ?
- (viii) What are the two types of correlation ?

Section-B **4×8=32**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 8 marks.

2. Discuss in brief the importance of research.
3. Differentiate between probability sampling and non-probability sampling.
4. Discuss the merits and demerits of primary data.
5. Find the coefficient of correlation from the following data :

X	1	2	3	4	5	6	7	8	9	10
Y	46	42	38	34	30	26	22	18	14	10

6. What are the assumptions of analysis of variances ?
7. What precautions should be taken while preparing questionnaire ?
8. What are the assumptions of Karl Pearson's coefficient of correlation ?
9. What are the characteristics of a good research report ?

Section-C **2×16=32**

(Long Answer Type Questions)

Note :- Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 16 marks.

10. Write a detailed note on features, need and factors affecting research design.
11. What do you understand by classification, tabulation, presentation and analysis ?
12. Obtain the *two* regression equations of X and Y pairs by the method of least squares :

X	1	2	3	4	5	6	7	8	9
Y	9	8	10	12	11	13	14	16	15

Why are there 2 regression lines ?