

(b) You are given the following data

	X	Y
Arithmetic Mean	36	85
Standard deviation	11	8

Correlation coefficient between X and Y = 0.66.

Find out two regression equations.

9. (a) Discuss the precautions to be taken while interpreting data.

Or

- (b) Enumerate the steps involved in writing a research report.

10. (a) Explain with reference to the following fields with suitable examples.

- (i) Role of Teacher
- (ii) Method of Teaching
- (iii) Evaluation procedure

Or

- (b) Explain the role of Mass Media in Adult education. How will you make effective use of Television and Newspaper in Adult education programme.

Reg. No. :

Code No. : 9020

Sub. Code : PCOC 11

M.Phil. DEGREE EXAMINATION, NOVEMBER 2022.

First Semester

Commerce

RESEARCH AND TEACHING METHODOLOGY

(For those who joined in July 2018-2019 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

1. (a) Define Research. State its objectives.

Or

- (b) Enumerate the basic principles of experimental research design.

2. (a) What do you mean by primary data? List out the methods of collecting primary data.

Or

- (b) What is tabulation? Describe the rules for preparing statistical labels.



3. (a) In a sample of 500 people from a village in Punjab, 280 are found to be rice eaters and 220 wheat eaters. Can we conclude that both the foodgrains are equally popular? Test at 1% level of significance.

Or

- (b) From the following data test the significance of the difference between 2 correlation coefficient using Fisher's Z transformation.

Sample Size	Value of r
5	0.87
12	0.56

4. (a) What are the precautions to be considered by a Researcher while preparing a research report?

Or

- (b) What are the characteristics of a good research report?

5. (a) Explain steps of Instructional Design for on-line learning with suitable examples.

Or

- (b) What are the physical and emotional characteristics of students during the period of Adolescence?

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PART B — (5 × 10 = 50 marks)

Answer ALL questions, choosing either (a) or (b).

6. (a) Briefly explain the steps involved in research process.

Or

- (b) Discuss the different components of a Research Design.

7. (a) Discuss the various steps involved in the sampling process.

Or

- (b) Describe how the following scales are constructed.

(i) Likert scale (ii) Thurstone's scale

8. (a) A manufacturer of readymade garments conducts a market survey to know the choice of brands A, B, C and D of 100 prospective customers. The results show

A = 20 B = 30 C = 18 D = 32

Use χ^2 test at 5% level of significance to know if customers have any distinct brand preference.

Or

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