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Name...

Reg. No.......................................

FIRST SEMESTER M.Ed. DEGREE EXAMINATION, DECEMBER 2022

M.Ed.

MED 04—INTRODUCTION TO EDUCATIONAL RESEARCH AND STATISTICS

(2017 Scheme)

Time : Three Hours

Maximum : 80 Marks

Section A

Answer all questions.
Each question carries 2 marks.

1. Define applied research.

2. How does an attitude scale differ from a questionnaire ?

3. What do you mean by incidental sampling ?

4. Mention any *two* properties of scatter plots.

5. Define Skewness.

(5 × 2 = 10 marks)

Section B

Answer any **eight** *questions.*
Each question carries 5 marks.

6. Critically analyse Research as a method of science.

7. State the characteristics of case study research.

8. How does related literature help in evolving conceptual framework.

9. Discuss the criteria for the selection of a problem.

10. Explain the characteristics of a good sample.

11. How is research question differs from hypothesis ?

12. Describe the measures of dispersion.

13. Write short notes on the application of computer software in diagrammatic representation.

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14. How will you control the effect of extraneous variables ?

15. Which are the measures of central tendency and variability ? Why is it necessary to compute these ?

16. How normal distribution table is used ?

17. Describe the types of correlation.

$(8 \times 5 = 40 \text{ marks})$

Section C

Answer any two questions.
Each question carries 15 marks.

18. a) Discuss the types of non probability sampling.

    b) Differentiate between probability and non-probability sampling.

    $(8 + 7 = 15 \text{ marks})$

19. a) What is the significance of randomization in experimental research ?

    b) Find out the median of following data : 34, 37, 46, 42, 33, 44, 30, 40, 35,33.

    $(8 + 7 = 15 \text{ marks})$

20. a) Find out quartile deviation from following data :

C.I	f
55–59	1
50–54	1
45–49	3
40–44	4
35–39	6
30–34	7
25–29	12
20–24	6
15–19	8
10–14	2
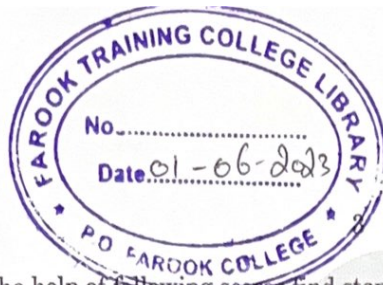
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b) With the help of following scores find standard deviation : 24, 23, 12, 14, 17, 18, 16, 20

c) Explain the utility of Correlation Co-efficient.

(5 + 5 + 5 = 15 marks)

21. (a) By following data calculate Spearman's correlation co-efficient :

X :	15	25	38	25	15	12	40	25
Y :	40	60	20	25	30	50	20	30

(b) What do you mean by correlation co-efficient ? Explain its general rules.

(8 + 7 = 15 marks)

[2 × 15 = 30 marks]