

MASTER'S DEGREE (C.S.S) EXAMINATION, MARCH 2024

2023 ADMISSIONS REGULAR

SEMESTER II - CORE COURSE SOCIOLOGY

SO2C10TM20 - Quantitative Research Methods

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. What is the difference between the control group and the experimental group.
2. Explain content validity.
3. What is face validity?
4. Describe the importance of coding.
5. What is primary data?
6. Explain the nominal level of measurement with an example.
7. Find Q1 and Q3 from the values: 10, 15, 20, 25, 30, 35, 40, 45
8. Define range and explain the uses of range.
9. Explain the uses of the Chi-square test.
10. When and for what purpose 't'- test is used?

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Explain the process of conceptualisation and operationalisation of a concept.
12. Explain the benefits of using theories in research.
13. Differentiate between descriptive statistics and inferential statistics.
14. Distinguish between census and sample survey.
15. Find the standard deviation and coefficient of variation from the following data

Size	2	4	6	8	10
Frequency	25	40	18	35	28

16. Calculate the mode of the following series:

Size	0-5	5-10	10-15	15-20	20-25	25-30
Freequency	20	24	32	28	20	26

17. The data given below relates to the price and demand of a commodity over a period. Compute the correlation coefficient between the price and demand.

Price (in Rs)	80	75	60	90	70
Demand (Kgs)	12	15	13	9	14



18. Differentiate between a large sample and a small sample test.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Explain the major criteria of quantitative research.

20. Explain the various graphic and diagrammatic methods available for the presentation of data.

21. Find the Standard Deviation of the following data

Size	1	2	3	4	5	6	7
Freequency	3	4	5	6	7	8	9

22. Calculate Karl Pearson's coefficient of correlation from the following.

X	12	20	15	22	18	24	20	12	15	22
Y	30	35	28	36	29	39	30	25	30	28

