

2025

M.A./M.Sc. 1st Semester Examination

**POPULATION, HEALTH
AND DEVELOPMENT**

Paper : PDSC405X9

**(Research Methodology : Qualitative
and Quantitative)**

[Practical]

Full Marks : 50

Time : Four Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Group - A

Answer any *four* questions : 2×4=8

1. What is the difference between primary and secondary data?
2. State any two differences between qualitative and quantitative methods.
3. Name any two vital events recorded under the Sample Registration System.

P.T.O.

(2)

4. Differentiate between parametric and non-parametric test in statistics.
5. Mention one merits and one demerits of median as a measure of central tendency.
6. Define Quartile Deviation (QD).

Group - B

Answer any *four* questions : $4 \times 4 = 16$

7. Write a short note on Focus Group Discussion (FGD).
8. Differentiate between survey and participatory approaches.
9. Prepare a household questionnaire to collect information on the economic status of families in a village.
10. Calculate the Arithmetic Mean (AM) from the following data :

Class Interval	20-40	40-60	60-80	80-100	100-120
Frequency	4	6	10	12	8

11. Distinguish between t-test and chi-square based on their uses.
12. What is Coefficient of Variation (CV)? Suppose batsman A has mean 50 with SD 10. Batsman B has mean 30 with SD 3. What do you infer about their performance?

2+2

(3)

Group - C

Answer any *two* questions : $8 \times 2 = 16$

13. Discuss different methods of data collection for writing ethnographic report.
14. Select two secondary datasets used for social research and compare them in terms of their purpose, sampling, and type of indicators.
15. Find Standard Deviation (SD) for the following data :

Class Interval	0-10	10-20	20-30	30-40	40-50
Frèquency	3	5	7	9	4

16. Define Scatter Diagram, Covariance and Correlation Coefficient. Calculate "correlation coefficient" from the given data :

$$n = 10, \sum X = 125, \sum X^2 = 1585, \sum Y = 80,$$

$$\sum Y^2 = 650, \text{ and } \sum XY = 1007 \qquad 5+3$$

[Laboratory Notebook and Viva-voce : 10 marks]
