

Total number of printed pages-4

3 (Sem-3/CBCS) GGY HC 3

2024

GEOGRAPHY

(Honours Core)

Paper : GGY-HC-3036

(Quantitative Methods in Geography)

Full Marks : 60

Time : Three hours

The figures in the margin indicate full marks for the questions.

1. Answer the following objective-type questions : 1×7=7
 - (a) What is frequency ?
 - (b) Define sampling.
 - (c) Data originally collected for an investigation is known as _____.
(Fill in the blank)
 - (d) A frequency polygon has more than four sides.
(Write True **or** False)

Contd.

(e) Data taken from a research journal will be considered as

(i) Primary Data

(ii) Secondary Data

(iii) Tertiary Data

(iv) Both primary and secondary data
(Choose the correct answer)

(f) Extreme values have no effect on Median. (Write True or False)

(g) What do you mean by bivariate data ?

2. Answer the following very short answer-type questions : $2 \times 4 = 8$

(a) Which method would you choose if you are required to show the distribution of actual rainfall at a place during the monsoon months for a period of 13 years ? Mention the justification of using that method.

(b) Define class interval.

(c) What do you mean by co-efficient of correlation ?

(d) What are quartiles ?

3. Answer the following short answer-type questions : **(any three)** $5 \times 3 = 15$

(a) Distinguish between quantitative data and qualitative data with examples.

(b) How do you determine median graphically ? Explain with an example.

(c) Write a short note on scatter diagram.

(d) What do you mean by coefficient of variation ? In what situation would you prefer this as a measure of dispersion ? $2+3=5$

(e) Draw a histogram from the given data and locate the position of mode :

Area of Land (in Acres)	5-10	10-15	15-20	20-25	25-30	30-35
Number of Families	20	35	150	70	44	38

4. Answer the following questions : **(any three)** $10 \times 3 = 30$

(a) Define time series data. What are its components ? Explain. $2+8=10$

(b) Discuss in detail the role of statistics in geographical analysis.

(c) What do you understand by median and quartiles ? Explain their uses.

5+5=10

(d) What is stratified random sampling ? Mention the advantages of stratified random sampling over simple random sampling. Describe a method of drawing a simple random sampling.

2+5+3=10

(e) Write a note on the application of correlation and regression analysis in geographical studies.

5+5=10

(f) Calculate Mode from the following set of data and interpret your result. Write down merits and demerits of Mode as a measure of central tendency.

Marks	0 - 20	20 - 40	40 - 60	60 - 80	80 - 100
Number of Students	5	15	30	12	8

5+2+3=10