

2019

B.Sc.

3rd Semester Examination  
**GEOGRAPHY (Honours)**

Paper - C 6-T

(Statistical Method in Geography)

Full Marks : 40

Time : 2 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 *five* questions :

5×2=10

1. What is frequency density ?
2. Define quota sampling.
3. How is census different from sample survey ?
4. Define variance.
5. Distinguish between variable and constant.

[ Turn Over ]

6. Define residuals.
7. Mention the use of moving average.
8. What is meant by 'Zero Correlation' ?

**Group - B**

Answer any *four* questions : 4×5=20

9. Distinguish between correlation and regression. What is 'Probable Error' ? 3+2
10. "Arithmetic Mean ( $\bar{X}$ ) is the ideal central tendency comparing to Median (Me) and Mode (Mo)." — Critically analyse the statement.

Establish the relation between Quartile and Percentile. 3+2

11. Write the uses of Rank Correlation Co-efficient.  
What is tied rank and how it is solved in correlation analysis ? 2+(1+2)
12. Highlight the properties of a standard normal curve. Mention its applications. 4+1
13. Briefly discuss major sources of statistical data collection.

14. Write the merits of sampling. Discuss the methods of random sampling.

**Group - C**

Answer any *one* question :

1×10=10

15. What is curve fitting ? State the significance of curve fitting in regression analysis ? Mention different types of curve fittings generally used in statistics with proper illustration. 2+3+5
16. What is Central Tendency ? Describe the advantages and limitations of Arithmetic mean, Median and Mode.
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