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GEOGRAPHY

(Major)

Paper : 5.3

(Cartographic and Quantitative Methods)

Full Marks : 60

Time : 3 hours

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

1. Answer the following questions :   1×7=7

    (a) What is alidade?

    (b) Which map projection would you select
    for drawing a map of the whole world?

    (c) What is the whole circle bearing of
    N 37°30′ W?

    (d) Mention one important merit of median.

    (e) What is the use of vertical angle in a
    theodolite?

(*Turn Over*)

(f) Compare the values of mean and mode in positively skewed distribution.

(g) What is variance?

2. Answer the following questions in brief : 2×4=8

(a) What is 'contouring'?

(b) What is 'orthomorphism'?

(c) Define 'coordinate system' with example.

(d) Mention two limitations of quantification in Geography.

3. Answer any *three* of the following questions :

5×3=15

(a) What is a map? Mention its basic characteristics. 1+4=5

(b) Explain briefly the principle of levelling with the help of dumpy level. 5

(c) Write a note on choice of map projection with reference to conical and cylindrical groups. 5

(d) What is meant by 'central tendency'? Briefly discuss the relative utilities of its different measures. 1+4=5

(e) What is 'time series analysis'? Briefly explain about its utilities in geographical study with reference to least squares method. 1+4=5

4. (a) What is cartography? Discuss about its importance in Geography with necessary illustrations. 2+8=10

Or

(b) What is closed traverse surveying? Explain the principle and procedure in conducting the same using a prismatic compass. 2+8=10

5. (a) Describe the basic properties, uses and limitations of cylindrical group of map projections. 10

Or

(b) What is 'quantification'? Discuss its need in collection and analysis of sample data. 2+8=10

6. (a) What is meant by 'regression residual'? Explain its utilities in geographical studies. 2+8=10

Or

(b) Discuss the applications of correlation and regression analysis in Human Geography. Give meaningful examples. 10

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