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(May)

GEOGRAPHY

(Major)

Course : 607

**(Geographical Thoughts and Quantitative
Methods)**

Full Marks : 48

Pass Marks : 19/14

Time : 2 hours

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

1. Answer the following as directed : 1×4=4

(a) Vidal de la Blache was a German
Philosopher. (Write True or False)

(b) The concept of standard deviation was
first used by _____.

(Fill in the blank)

(c) To make a comparative study of the
variability of two series is one of the
objectives of measure of dispersion.

(Write True or False)

(d) In the equation $y = a + bx$, a stands for
_____.

(Fill in the blank)

2. Answer the following questions **within 150 words** each : 4×2=8

(a) Describe in brief the effect of exploration and discovery of the medieval period on the development of geographical studies.

Or

Write a note on the works of Alexander von Humboldt.

(b) Write on the utility of the study of correlation in geographical studies.

Each question of Unit—I and Unit—II to be answered **within 300 words**

UNIT—I

(Geographical Thoughts)

3. Describe the contribution of Greek philosophers towards the development of Geography with special reference to the works of Eratosthenes. 9

Or

Give an account of the contribution of German school of Geography with special reference to the works of Friedrich Ratzel.

4. Write a note on the development of Geography during the modern period. 9

UNIT—II

(Quantitative Methods)

5. What is sampling? What are its types? Write about the different types of sampling mentioning their field of utilization. $2+2+5=9$

Or

What is regression analysis? The following table shows the family size (x) and monthly expenditure (y) for five households. Fit a linear regression of expenditure (y) on family size (x). What is likely to be the expenditure for a household of size 8? $2+5+2=9$

Household size (x)	2	3	4	5	6
Monthly expenditure (y)	250	300	410	450	565

6. The marks obtained by 20 students in an examination are shown in the following table. Calculate the coefficient of variation of marks and interpret the result : $7+2=9$

Marks	0-20	20-40	40-60	60-80	80-100
No. of students	2	4	7	6	1

Or

Write short notes on any *two* of the following :

$$4\frac{1}{2} \times 2 = 9$$

- (a) Rank-size relationship
- (b) Index number
- (c) Correlation analysis
