2023

GEOGRAPHY

Paper : GEOSE3012

(Statistical Methods in Geography)

Full Marks : 40

Pass Marks : 16

Time : 2 hours

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

1. Choose the correct answer (any *five*) :   1×5=5

   (a) Cross-tabulation is divided in

   (i) two

   (ii) three

   (iii) six

   (iv) eight

(Turn Over)

(b) The positive square root of the average of squares of deviation is

   (i) quartile deviation

   (ii) mean deviation

   (iii) standard deviation

   (iv) coefficient of variation

(c) The maximum frequency is known as

   (i) mean

   (ii) mode

   (iii) decile

   (iv) percentile

(d) In graphical form normal distribution appears a

   (i) frequency curve

   (ii) cumulative frequency curve

   (iii) Bell curve

   (iv) histogram

(e) The range of values for correlation coefficeent is

   (i) 1·0 to 2·0

   (ii) –2·0 to 2·0

   (iii) –1·0 to 1·0

   (iv) –2·0 to 3·0

(f) The sampling widely used in qualitative research is

   (i) systematic sampling

   (ii) random sampling

   (iii) stratified sampling

   (iv) purposive sampling

(g) The 5th decile represent for

   (i) mean

   (ii) median

   (iii) mean deviation

   (iv) quartile deviation

(h) The primary source of data is collected by

    (i) books

    (ii) interviews

    (iii) journals

    (iv) megazines

(i) Quartile deviation for 1, 3, 4, 6, 6, 10 is

    (i) 3

    (ii) 2·5

    (iii) 2

    (iv) 1·5

(j) A map scale is a ratio of _____ on a map to the actual ground.

    (i) elevation

    (ii) height

    (iii) distance

    (iv) distortion

2. Answers any *five* of the following questions : 2×5=10

    (a) What do you mean by mean?

    (b) What is ordinal data?

    (c) What are two uses of probability?

    (d) Write two advantages of quartile deviation.

    (e) What is geographic data?

    (f) Name two sources of secondary data.

    (g) What do you mean by purposive sampling?

3. Answer the following questions (any *three*) : 5×3=15

    (a) What is descriptive statistics? Write its uses in geography. 2+3=5

    (b) Write a short note on regression analysis.

    (c) Calculate the following data with the help of Karl Pearson's correlation method :

X	7	9	12	8	10
Y	6	9	8	5	6

(d) Write in short the use of sampling techniques in geography.

(e) Explain the significance of statistical method in geography.

(f) Write the advantage and disadvantage of measures of central tendency.

4. Answer any *one* of the following questions : 10

(a) What do you mean by measures of dispersion? Discuss the relative measures of dispersion in geographical analysis with example. 2+8=10

(b) What do you mean by regression? Discuss its application in geographical analysis. 2+8=10

(c) Calculate the following data with the coefficient of variation and interpret the result.

District-wise rainfall variations of Dibrugarh and Kamrup district of Assam :

District	2006	2007	2008	2009	2010
Dibrugarh	220cm	237cm	244cm	218cm	263cm
Kamrup	118cm	189cm	160cm	144cm	212cm

★ ★ ★