

2021

Full Marks : 60

Time : 3 hours

The figures in the right-hand margin indicate marks

Answer **all** questions

1. Answer *all* the questions, each in 1 word : 8×1

- (a) Population of region is \_\_\_\_\_  
(spatial/attribute) data.
- (b) Location of a place is \_\_\_\_\_  
(spatial/attribute) data.
- (c) Give an example of primary data.
- (d) A nominal scale is a scale of measurement used to assign events or objects into \_\_\_\_\_ (discrete/similar) categories.
- (e) Random sampling is a part of the sampling technique in which each sample has an \_\_\_\_\_ (different/equal) probability of being chosen.
- (f) What is most commonly used measure of central tendency?

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(Turn Over)

(2)

- (g) The mode is the value that appears \_\_\_\_\_ (least/most) often in a set of data values.
- (h) What is most commonly used measure of dispersion?

2. Answer *any eight* questions, each within 2-3 sentences : 8×1½

- (a) Name two spatial data.
- (b) What is secondary data?
- (c) What is ordinal scale of measurement?
- (d) What is the use of frequency distribution in analysing data?
- (e) Define median.
- (f) What is stratified sampling?
- (g) Define mean deviation.
- (h) What is variance?
- (i) What is product moment correlation?
- (j) What is Chi-square test?

3. Answer *any eight* questions, each within 75 words : 8×2

- (a) What is difference between spatial and attribute data?

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- (b) What is the difference between discrete and grouped data?
- (c) How interval and ratio scales of measurement of data are different?
- (d) What is the difference between normal and binomial distribution of data?
- (e) What is systematic sampling? Give one example.
- (f) What is the difference between random and stratified sampling? Briefly explain.
- (g) What is the difference between mean and standard deviation?
- (h) What is the difference between variance and coefficient of variation?
- (i) What is linear regression? Write its two uses.
- (j) Briefly explain coefficient of determination.

4. Answer all questions, each within 500 words : 4×6

- (a) Explain scales of measurement of data. Give examples for each.

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(Turn Over)

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Or

Write a note on geographical data matrix.

- (b) Explain the difference among mean, median and mode. Find these them for following dataset :

32, 55, 67, 72, 75, 80, 10, 10, 10, 55

Or

Define frequency distribution and explain their types.

- (c) Briefly explain standard deviation. Write steps to calculate it.

Or

Find standard deviation in population of Sambalpur blocks.

Block's name	Total population (in thousands)
Bamra	96
Kochinda	87
Jamankira	94
Rengali	91
Dhankauda	285
Maneswar	166
Jujomura	87
Rairakhol	71
Naktideul	64

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(d) Explain the difference between product moment correlation and rank correlation.

Or

Find product moment correlation for following data rainfall and flow data from parts of upper Brahmani river catchment :

Year	Annual average rainfall (mm)	Annual average flow (cumec)
2001	3	81
2002	3	49
2003	4	70
2004	5	53
2005	4	56

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