CBCS/B.A./B.Sc./Hons./3rd Sem./Geography/GEOACOR07T/2019





WEST BENGAL STATE UNIVERSITY

B.A./B.Sc. Honours 3rd Semester Examination, 2019

GEOACOR07T-GEOGRAPHY (CC7)

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks. Candidates should answer in their own words and adhere to the word limit as practicable. All symbols are of usual significance.

GROUP-A

| | Answer any one question from the following | 10×1=10 | | | | | |
|--|---|---------|--|--|--|--|--|
| 1. How does probability sampling differ from non-probability sampling? Explain the types of probability sampling techniques with numerical examples. | | | | | | | |
| 2. | 2. Define 'Arithmetic Mean (AM)', 'Geometric Mean (GM)' and 'Harmonic Mean (HM)' and compare their relative advantages and disadvantages. | | | | | | |
| | | | | | | | |
| GROUP-B | | | | | | | |
| | Answer any four questions from the following | 5×4=20 | | | | | |
| 3. | Calculate 7 th decline and 65 th percentile from the following data: | 4+1 = 5 | | | | | |
| | Wages (Rs.) / day 150 200 250 300 500 1000 1800 No. of workers 20 40 50 70 30 15 2 | | | | | | |
| | What is difference between percentage and percentile? | | | | | | |
| 4. | What is standard error? Differentiate between mean deviation and standard deviation. | 2+3 = 5 | | | | | |
| 5. | Derive the linear regression equations of y on x and x on y . | | | | | | |
| 6. | Mention different types of sampling. Explain with example Simple random sampling with replacement and without replacement. | | | | | | |
| 7. | Mention the merits and demerits of moving average methods for determining trend in the analysis of time series. | 5 | | | | | |

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8. Differentiate between linear and non-linear regression. Find the standard 3+2=5 deviation of the following table:

| x | 10 | 20 | 30 | 40 | 50 |
|---|----|----|----|----|----|
| f | 9 | 18 | 25 | 7 | 5 |

9. Mention the difference between discrete and continuous variable. Explain with 3+2=5 example the uses of Rank correlation.

GROUP-C

Answer any five questions from the following

 $2 \times 5 = 10$

- 10. What is normal curve?
- Distinguish between nominal and ordinal scale of measurement.
- Mention merits and demerits of modal values.
- 13. Explain different methods of collection of qualitative and quantitative data.
- 14. What are the differences between sample and population data?
- 15. What are the uses of stratified sampling?
- Mention different types of correlation with example.
- Define frequency density and relative frequency.
- 18. What is sample error?

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