RAMAKRISHNA SARADA MISSION VIVEKANANDA VIDYABHAVAN

GEOGRAPHY HONOURS\_SEMESTER - III

INTERNAL EXAMINATION : CC7 (STATISTICAL METHODS IN GEOGRAPHY)

FULL MARKS – 40

TIME – 2 Hours

DATE –22.12.2022

A. Answer any one of the following questions: 1x10=10

(Each answer must be within 600 words)

1. Table No.1 shows the frequency distribution of Population density of 200 CD blocks. (ND)

a) Calculate the mean, mode and 7th decile of the given distribution. 2+2+2

b) State clearly whether the distribution is skewed or not. 2

c) What percent of the CD blocks have a Population density less than 650? 2

Table No:1

| Population Density in persons/Sq Km. | Number of CD Blocks |
| --- | --- |
| 600 - 609 | 10 |
| 610 - 619 | 20 |
| 620 - 629 | 24 |
| 630 - 639 | 40 |
| 640 - 649 | 50 |
| 650 - 659 | 25 |
| 660 - 669 | 22 |
| 670 - 679 | 5 |
| 680 - 689 | 4 |

2. On the basis of data provided in Table 2. (SM)

a) Draw a time series graph to show the annual production of tea of Darjeeling.

b) Compute and draw the trend by 4 year moving averages.

Table No: 2 Annual Tea Production ('000 kgs) in Darjeeling.

| YEAR | TEA PRODUCTION (in ‘000 kg) |
| --- | --- |
| 2006 | 10,854 |
| 2007 | 10,007 |
| 2008 | 11,586 |
| 2009 | 8,909 |
| 2010 | 8,626 |
| 2011 | 9,140 |
| 2012 | 8,930 |
| 2013 | 9,130 |
| 2014 | 8,510 |
| 2015 | 8,760 |
| 2016 | 8,130 |

B. Answer any four of the following questions: 4x5=20

(Each answer must be within 150 words)

3. Discuss the Scales of measurement of data with suitable examples for each. (AP)

4 What are the different parts of a table? Explain with the help of a diagram. What are the two main advantages of tabulation of data? (KD) 2+2+1

5. Discuss the advantages, disadvantages and methods of simple random sampling, (KD)

6. Discuss the properties of Normal distribution/Curve (ND)

7. Differentiate between Rank Correlation and Product moment method (SM)

8 Discuss the importance of statistics in Geography? (AP)

C. Answer any five of the following questions: 5x2=10

(Each answer must be within 50 words)

9. Differentiate between discrete and continuous data.(AP)

10. Differentiate between population and sample (AP)

11. Write the sources of primary data. (AP)

12. Differentiate between linear and non-linear regression (SM)

13. What are different types of sampling? (KD)

14. Distinguish between questionnaire and schedule (KD)

15. Why do we need data collection? (KD)

16. Differentiate between normal and skewed distribution (ND)

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