



K18U 2202

Reg. No. :

Name :

I Semester B.Sc. Degree (CBCSS – Reg./Supple/.Improv.)
Examination, November 2018
COMPLEMENTARY COURSE IN STATISTICS FOR GEOGRAPHY/
PSYCHOLOGY CORE
1C01 STA : Descriptive Statistics
(2014 Admn. Onwards)

Time : 3 Hours

Max. Marks: 40

Instruction : Use of Calculators and Statistical tables are permitted.

PART – A (Short Answer)

Answer **all** the 6 questions.

(6×1=6)

1. What are the different sources of data ?
2. What is a random sample ?
3. Define Median.
4. Determine Mode of
420, 395, 342, 444, 551, 395, 425, 417, 395, 417.
5. What is an inter quartile range ?
6. Give the formula for quartile coefficient of skewness.

PART – B (Short Essay)

Answer **any** 6 questions.

(6×2=12)

7. Explain partition values.
8. Define sampling unit and sampling frame.

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9. Define Primary data and Secondary data.
10. Distinguish between absolute and relative measures of dispersion.
11. Find the average rate of motion of a cyclist who rides the first mile at 8mph, second mile at 7 mph and third mile at 6 mph ?
12. Calculate combined mean and combined S.D. from the following data :

Sample	No.	Mean	S.D.
A	50	113	6.5
B	60	120	8.2

13. For a group of 10 items $\sum x = 452$, $\sum X^2 = 24270$ Mode = 43.7. Find Karl Pearson's coefficient of skewness.
14. Define simple random sampling and systematic random sampling with example.

PART – C (Essay)

Answer any 4 questions.

(4x3=12)

15. Define census and sampling. What are the advantages of sampling over census ?
16. Explain different types of bar diagrams.
17. Define weighted average and simple average. How does weighted average differ from simple average ?
18. Calculate Mean deviation about mean for the following data :

Class :	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50
frequency :	5	15	17	11	2



- 19. The first three moments of a distribution about the value 5 of the variable are 2, 20 and 40. Find mean, variance and μ_3 .
- 20. Explain Lorenz curve.

PART – D (Long Essay)

Answer **any 2** questions.

(2×5=10)

- 21. Calculate Quartiles, Quartile deviation and quartile coefficient of dispersion for the following data.

Class :	20 – 30	30 – 40	40 – 50	50 – 60	60 – 70
frequency :	5	10	20	10	5

- 22. Draw a line diagram and histogram.

Class :	0 – 5	5 – 10	10 – 15	15 – 20	20 – 25	25 – 30	30 – 35
frequency :	7	10	20	13	17	10	9

- 23. Find which series is more consistent ?

Series A :	10	12	80	70	60	100	0	4
Series B :	8	9	7	10	5	9	10	8

- 24. What is central tendency ? Explain any 4 measures of central tendency.
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