



K22U 3437

Reg. No. : .....

Name : .....

I Semester B.Sc. Degree (CBCSS – OBE – Regular/Supplementary/  
Improvement) Examination, November 2022  
(2019 Admission Onwards)

COMPLEMENTARY ELECTIVE COURSE IN STATISTICS  
(FOR GEOGRAPHY/PSYCHOLOGY)  
1C01STA (G&P) : Descriptive Statistics

Time : 3 Hours

Max. Marks : 40

*Instruction : Use of calculators and statistical tables are permitted.*

PART – A  
(Short Answer)

Answer all 6 questions.

(6×1=6)

1. Define qualitative data.
2. Define mode.
3. Find the geometric mean of 4 and 16.
4. What is coefficient of variation?
5. Define sampling unit.
6. Define Kurtosis.

PART – B  
(Short Essay)

Answer any 6 questions.

(6×2=12)

7. Write any two limitations of sampling.
8. Define sampling and non-sampling errors.
9. Let the average mark of 40 students of class A be 38, the average mark of 60 students of another class B be 42. Find the average mark of combined group of 100 students.

P.T.O.



10. Explain mean deviation about mean.
11. What is the difference between discrete frequency distribution and continuous frequency distribution ?
12. Explain relative measures of dispersion.
13. Find median for the following values :  
4, 45, 60, 20, 83, 19, 26, 11, 27, 12, 5, 2.
14. What is a pie diagram ?

PART - C

(Essay)

Answer any 4 questions.

(4×3=12)

15. Explain different types of bar diagrams.
16. Calculate quartiles for the following data :  
Classes : 30 - 35    35 - 40    40 - 45    45 - 50    50 - 55    55 - 60    60 - 65  
Frequency : 10    16    18    27    18    8    3
17. Explain the methods of measuring Skewness of a frequency distribution.
18. Explain simple random sampling and systematic random sampling.
19. Draw a line diagram for the following data :  
Classes : 0 - 10    10 - 20    20 - 30    30 - 40    40 - 50  
Frequency : 10    15    21    14    8
20. If the third quartile is 175 and the median is 150, find the coefficient of quartile deviation assuming the distribution to be symmetrical.



PART - D  
(Long Essay)

Answer any 2 questions.

(2×5=10)

21. a) Explain the concept of population and sample.  
b) Define census and sampling.  
c) What are the advantages of sampling over census ?

22. Calculate S.D. for the following :

Classes :	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60	60 - 70
Frequency :	10	16	30	40	26	18

23. Calculate mean, median and mode for the following data :

Marks :	0 - 10	10 - 20	20 - 30	30 - 40	40 - 50	50 - 60
Frequency :	5	15	40	32	20	8

24. Explain the different steps in the constructions of histogram and frequency polygon with example.

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