

TB213520V

Reg. No :

Name :

B. A. DEGREE (C.B.C.S) EXAMINATION, NOVEMBER 2022
(2021 Admissions Regular,2020 Admissions Supplementary/Improvement,2019 & 2018 Admissions Supplementary)
SEMESTER III - COMPLEMENTARY COURSE 2 (STATISTICS)
(For Sociology)
ST3C03B18 - BASIC STATISTICS

Time : 3 Hours

Maximum Marks : 80

Part A

I. Answer any Ten questions. Each question carries 2 marks

(10x2=20)

1. What are the uses of Statistics?
2. What are the functions of statistics?
3. What do you mean by distrust of Statistics?
4. What are the advantages of a sample survey?
5. What do you mean by a systematic sample?
6. What is meant by tabulation of data?
7. Distinguish between exclusive and inclusive classes.
8. Distinguish between diagrams and graphs.
9. Distinguish between simple arithmetic mean and weighted arithmetic mean.
10. Name the different absolute measures of dispersion and their corresponding relative measures.
11. Define Deciles and Percentiles.
12. What is meant by Partition value? Name the different partition values.

Part B

II. Answer any Six questions. Each question carries 5 marks

(6x5=30)

13. Describe any two methods of collecting Primary data.
14. Discuss briefly the use of Statistics in business.
15. Distinguish between simple random sampling and stratified random sampling.
16. Distinguish between a Census survey and a Sample survey bringing out their advantages and limitations.
17. Form an appropriate grouped frequency table for the following data
32,47,41,51,41,30,39,18,48,53,54,32,31,36,15,37,32,56,42,48.
18. Explain the construction of a histogram.
19. State the empirical relation between mean, median and mode. If the mean and median calculated for a statistical data are 14.92 and 15.83 respectively, find the mode.
20. Find the Quartile deviation from the following data.

Farm area(in acres)	5-15	15-25	25-35	35-45	45-55	55-65	65-75
No. of farms	7	12	17	29	31	5	3

21. Find Standard deviation

Marks	10-20	20-30	30-40	40-50	50-60
No. of students	12	18	29	22	19

Part C

III. Answer any Two questions. Each question carries 15 marks

(2x15=30)

22. Explain the different methods of collecting primary data bringing out the advantages and limitations of each method.
23. (a) Explain the importance of classification and tabulation in a statistical investigation.
(b) What are the characteristics of a good classification?
(c) Explain the different parts of a Statistical table.

24. Find the missing information from the following

	Group I	Group II	Group III	Combined
No. of observations	50	?	90	200
Standard deviation	6	7	?	7.746
Mean	113	?	115	116

25. Find the arithmetic mean, standard deviation and co-efficient of variation from the following frequency distribution

Class intervals	0-8	8-16	16-24	24-32	32-40	40-48
frequency	6	10	16	13	9	6