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FIRST SEMESTER (CBCSS—UG) DEGREE EXAMINATION
NOVEMBER 2023

Statistics (For Psychology)

STA 1C 02—DESCRIPTIVE STATISTICS

(2019—2023 Admissions)

Time : Two Hours　　　　　　　　　　　　　　　　　Maximum : 60 Marks

Use of Calculator and Statistical Table are permitted.

Part A (Short Answer Type Questions)

Maximum marks that can be scored from this Part is 20.
Each question carries 2 marks.

1. What is secondary data ?

2. Distinguish between sampling and census method.

3. What are grouped and ungrouped frequency distributions ?

4. Give the different type of bar diagram used to represent qualitative data ?

5. How mode is located graphically ?

6. Define an average.

7. What is the harmonic mean of 1, 2 and 4 ?

8. Find out mode if mean and median are 28 and 25 respectively.

9. Define Quartile Deviation

10. Define Coefficient of variation.

11. The second and third moments about the mean are 20 and 140 respectively. Find β_1 and γ_1.

12. Define Pearson beta and gamma measures.

Turn over

Part B (Short Essay/Paragraph Type Questions)

Maximum marks that can be scored from this Part is 30.
Each question carries 5 *marks*

13. Write a note on qualitative classification ? Give examples ?

14. List out the important diagrams that are in common use ? Write a note on any *one* of them ?

15. Give the merits and demerits of SD.

16. Construct a multiple bar diagram to represent the following data :

Year	:	1992–93	1993–94	1994–95	1995–96	1996–97
Imports (in billion rupees)	:	19	30	45	53	51
Exports (in billion rupees)	:	20	25	33	40	51

17. Calculate Mode for the following data :

Marks	:	0–10	10–20	20–30	30–40	40–50	50–60	60–70	70–80	80–90	90–100
No of Students	:	3	5	7	10	12	15	12	6	2	6

18. Find the QD and co-efficient of QD for the following data :

Size	:	10	12	15	18	20	25
Frequency	:	2	3	8	10	6	1

19. From the following data, find the missing frequency when mean is 15.38 :

Size	:	10	12	14	16	18	20
Frequency	:	3	7	?	20	8	5

Part C (Essay Type Questions)

Maximum marks that can be scored from this Part is 10.
Each question carries 10 *marks.*

20. Find Mean and Median for the following data :

Marks	:	0–10	10–20	20–30	30–40	40–50	50–60	60–70	70–80	80–90
Frequency	:	4	2	18	22	21	19	10	3	1

21. Calculate the standard deviation and co-efficient of variation for the following data :

Class	:	0–10	10–20	20–30	30–40	40–50	50–60	60–70
Frequency	:	10	15	25	25	10	10	5