Roll No. | | | | | | | | | | | | Total No. of Pages : 02

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BCA (Sem.–2)

FUNDAMENTALS OF STATISTICS

Subject Code : UGCA-1907

M.Code : 77415

Date of Examination: 17-11-2023

Time : 3 Hrs. **Max. Marks : 60**

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.**

SECTION-A

1. Answer briefly :

a) Differentiate between primary data and secondary data.

b) How will you check the authenticity of secondary data?

c) "*Statistics can prove anything*" Discuss this statement.

d) Give formula to calculate mean, median and mode in individual discrete and continuous series.

e) Which method of Central tendency out of mean, median and mode do you consider to be the best and why?

f) The daily pocket allowance (in Rs) of 10 students is given below:

15	20	30	22	25	18	40	50	55	65

Calculate the A.M. by taking 40 as assumed mean.

g) Write down the formula to calculate D_7 and P_{45} in continuous series.

h) List down the merits and demerits of Median.

i) Importance of measure of Dispersion.

j) What is meant by Coefficient of Variation? What is its usefulness?

SECTION-B

2. "*Statistics affects everybody and touches life at every place*" discuss the importance of statistics in light of the above stated statement.

3. Explain the various methods for collecting primary data and secondary data.

4. **From the following data construct histogram and frequency polygon:**

Life of bulbs(in hrs)	800 to 1000	1000 to 1200	1200 to 1400	1400 to 1600	1600 to 1800	1800 to 2000	2000 to 2200
No. of bulbs	6	10	24	30	20	6	4

5. A class of 16 boys and 16 girls were given a common intelligence test and the following marks were obtained :

Sr. No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Boys	15	35	43	46	48	48	49	50	55	56	60	64	71	75	80	85
Girls	10	30	45	52	55	58	61	61	63	69	70	72	74	75	75	90

Calculate the Median marks of boys and girls.

6. Calculate the Mode for the following data:

Class	20-24	25-29	30-34	35-39	40-44	45-49
Frequency	3	6	5	14	7	8

7. Compute standard deviation from:

Marks	Less than 10	20	30	40	50	60
No. of Females	8	12	20	26	35	50

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student