

2316

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Class - B.Sc. (BT)-II Semester

Subject - Biostatistics

Paper - BT-5

Time Allowed : 3 hrs.

Maximum Marks : 40

Note: (1) Attempt all questions from Section A. Each carries one mark.

(2) Attempt any five questions from Section-B. Each carries 4 marks.

(3) Attempt any Two questions from Section-C. Each question carries 6 marks.

SECTION- A

1. Give advantage of graphic Representation.
2. Merits and Demerits of Mean and Mode.
3. When Median is used in real life situation?
4. Differentiate between correlation and regression.
5. What do you understand by continuous data? Give example of and two types of continuous series.
6. Explain mutually exclusive, equally likely events.
7. What do you mean by frequency Polygon?
8. What do you mean by Measures of Dispersion?

SECTION- B

9. What are the characteristics of good measures of central tendency?
10. What is the difference between census and sampling

method?

11. Describe briefly the construction of frequency curves of a frequency distribution and state their uses.
12. State and prove addition theorem of Probability.
13. Explain different types of correlation.
14. Give properties of Regression lines and regression coefficient.
15. Why there are two regression lines in case of Bivariate series?
16. What is difference between mean deviation and standard deviation? In which factory there is more variability

A:	700	675	725	625	600	700	650	700	600	650
B:	550	600	515	550	650	600	550	525	625	600

SECTION- C

17. Explain with an example

$$r_{xy} = -1, r_{yx} = +1, r_{xy} = 0.$$

18. Find out missing values. Given Median = 33.5, mode = 34, N = 230

Wages :	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency :	4	16	?	?	?	6	4

19. Find modal weight -

Weight (in lbs):	0-10	10-20	20-30	30-40	40-50
No. of persons	2	6	20	32	33
Weight (in lbs):	50-60	60-70	70-80		
No. of persons:	17	8	3		

20. Explain different method of sampling.

Or

Represent the following distribution by Histogram. Also draw frequency polygon and curve

Salary (₹):	300-400	400-500	500-600	600-700
No. of workers :	20	30	60	75
Salary (₹) :	700-800	800-900	900-1000	1000-1200
No. of workers :	115	110	60	40