

B.B.A DEGREE EXAMINATION, APRIL 2020
II Year IV Semester
Business Statistics - I

Time : 3 Hours

Max.marks :75

Section A ($10 \times 2 = 20$) Marks

Answer any **TEN** questions

1. Define Statistics.
2. What is Median?
3. Define Mode.
4. What is standard deviation?
5. What is meant by Correlation?
6. Write any uses of tabulating data.
7. Define Regression.
8. What is skewness?
9. What is Quartile Deviation?
10. What is Arithmetic mean? Write its formula.
11. Quote any 2 uses of scatter diagram.
12. Write the importance of Statistics.

Section B ($5 \times 5 = 25$) Marks

Answer any **FIVE** questions

13. What are the importance of Statistics?
14. What are the different types of frequency distribution?
15. Calculate mean & standard deviation of following frequency distribution of marks.

Marks	No. of students	Marks	No of students
0-10	5	40-50	50
10-20	12	50-60	37
20-30	30	60-70	21
30-40	45		

16. Calculate mode

X :	0 - 10	10 -20	20 -30	30 -40	40 -50	50 -60	60 -70	70 -80
f :	3	5	8	12	6	9	2	3

17. Find geometric mean for the following data

X :	0 - 10	10 -20	20 -30	30 -40	40 -50
f :	4	20	35	10	6

18. Calculate mean:

X:	1	2	3	4	5	6	7
Y:	22	10	7	12	15	5	18

19. Find Bowley's coefficient of skewness for the following frequency distribution.

No. of children per family:	0	1	2	3	4	5	6
No. of families:	7	10	16	25	18	11	8

Section C ($2 \times 15 = 30$) Marks

Answer any **TWO** questions

20. Explain in detail about the scope and limitations of statistics

21. Calculate the spearman's rank correlation

X:		1	2	3	4	5	6	7	8	9	10
Maths :		78	36	98	25	75	82	90	62	65	39
Statistics :		84	51	91	60	68	62	86	58	53	47

22. Find the regression equations from the data given below

X :	1	2	3	4	5	6	7
Y :	2	4	7	6	5	6	5

23. Find karl pearson's coefficient of correlation

Case:	A	B	C	D	E	F	G	H
X :	10	6	9	10	12	13	11	9
Y :	9	4	6	9	11	13	8	4

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