

Roll No. :

Total No. of Questions : 16]

[Total No. of Printed Pages : 4

BB-107

B.B.A. (Part-I) Examination, 2022

STATISTICS FOR BUSINESS DECISIONS

Paper - BBA-107

Time : 3 Hours]

[Maximum Marks : 70

Section-A

(Marks : 2 × 10 = 20)

Note :- All the *ten* questions are compulsory. Each question is to be attempted in around **50** words. Each question carries **2** marks.

Section-B

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five. Each question is to be attempted in around **500** words. Each question carries **10** marks.

Section-C

(Marks : 20 × 1 = 20)

Note :- *One* question based on case study is compulsory and carries **20** marks.

Section-A

Write short notes on the following :

1. Raw Data
2. Continuous Data
3. Sample

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4. Median
5. Standard Deviation
6. Skewness
7. Correlation
8. Regression
9. Paasche's Index Number
10. Probability

Section-B

11. What are the similarities and dissimilarities between the two methods? Questionnaires to be filled in by informants and schedules to be filled in by the enumerators. Explain with examples.
12. From the following data calculate the median marks. Also if 60% of the students pass a test, then find the minimum marks obtained by a pass student :

Marks more than	No. of Students
0	50
10	46
20	40
30	20
40	40
50	3

13. Find Karl Pearson's coefficient of correlation between age and playing habits from the following data :

Age in Year	No. of Students	Regular Players
14.5–15.5	500	400
15.5–16.5	400	300
16.5–17.5	300	180
17.5–18.5	240	96
18.5–19.5	200	60
19.5–20.5	160	24

14. Check if Fisher's ideal index satisfies the Time and Factor Reversal Tests for the given data :

Commodity	Wheat		Barley		Maize	
	Price	Quantity	Price	Quantity	Price	Quantity
2021	4.5	90	3.7	10	3.0	4
2022	9.5	100	6.5	11	5.1	5

15. A problem is given to 4 students, A, B, C and D to solve. The probability for each student to solve it is $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$ and $\frac{1}{5}$ respectively. What is the probability that the question will be solved ?

Section-C

16. Calculate Median, Mode, Quartiles and Middle 50% marks of the students from the following table :

Marks above	No. of Students
70%	7
60%	18
50%	40
40%	40
30%	63
20%	65