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DCBA113/DCBB113

Reg. No. | | | | | | | | | |

I Semester B.B.A. (Regular) & B.B.A. (Business Analytics) Degree

Examination, January/February - 2025

BUSINESS ADMINISTRATION

Statistics for Business Decision-I

(SEP Scheme (F))

Time : 3 Hours **Maximum Marks :80**

Instruction to Candidates:

All the Answers should be written in english only.

SECTION-A

Answer any Five of the following questions. Each questions carries Two marks.

(5×2=10)

1. a) State any Tour limitations of statistics.

   b) Define statistics as given by prof. Horace secrist.

   c) Explain sample method of Data collection.

   d) What is classification of data?

   e) If $\bar{x} = 38.2$, median = 41.6 find mode.

   f) What is cv given mean = 56, variance of 60 items is 144.

   g) What is current year?

   h) Calculate co-efficient of quartile Deviation given $Q_1 = 20$, $Q_3 = 45$.

SECTION-B

Answer any Four of the following questions. Each question carries Five marks.

(4×5=20)

2. List out any five functions of statistics.

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3. The number of workers in a large factory in 2019 was 540 out of which 30% were females and the rest males. In 2021, the strength of the workers increased by 100 females and 200 males. In 2023, the total number of workers increased by 25% on its value in 2021.

   The female workers were 340. Tabulate the above.

4. Calculate median from the following data:

Marks :	0-10	10-20	20-30	30-40	40-50	50-60
No. of Students :	4	9	13	21	25	12

5. Compute Mode from the following data:

   45, 110, 78, 70, 52, 75, 83, 64, 98

6. Which company has greater variability in salary?

	Co.x	**Co.y**
No. of employees	250	250
Standard Deviation	500	600
Average monthly salary (Rs)	20,000	25,000

7. Calculate consumer Price Index using family Budget method for the year 2024 with 2020 as base year for the following data:

Item	Weights	Price (Rs)	
		2020	**2024**
A	35	150	140
B	20	75	90
C	10	25	30
D	15	50	60
E	20	60	80

SECTION-C

Answer any Three questions. Each question carries Fifteen marks.

(3×15=45)

8. Calculate Median of the following data:

More than :	10	20	30	40	50	60	70	80
Frequencies:	115	103	88	68	43	23	13	3

9. Calculate Mean and Mode from the following data:

Wages in Rs 1000:	0-20	20-40	40-60	60-80	80-100
No. of workers:	82	112	150	95	48

10. From the following compute co-efficient of skewness.

Weekly wages (Rs):	40-60	60-80	80-100	100-120	120-140	140-160	160-180
No. of Workers:	6	10	18	30	15	12	7

11. From the share's prices of x and y company given below, state which company's share prices are more consistent.

Share Prices of x co. :	55	54	52	53	56	58	52	50	51	59
Share Prices of y co. :	108	107	105	105	106	107	104	103	104	101

12. Calculate Fisher's Ideal Index Number from the following data and prove that it satisties both the reversibility tests.

	2020		2024	
Item	Price **Rs.**	Quantity	Price **Rs.**	Quantity
A	25	110	32	150
B	82	95	94	120

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C	125	30	143	30
D	92	185	89	230
E	29	200	31	235
F	110	20	100	22

SECTION-D

Answer the following question. Which carries Five marks. **(1×5=5)**

13. Prepare a Blank Table and mention the parts of the table.