Course Code: **24BB1C07**

BONAM VENKATA CHALAMAYYA INSTITUTE OF TECHNOLOGY & SCIENCE
(AUTONOMOUS)
I-BBA I-Semester Supplementary Examinations (BR24), Jul - 2025
BUSINESS STATISTICS AND LOGIC (BBA)

Time: 3 hours   Max. Marks: 70

Question Paper consists of Part-A and Part-B
*Answer ALL the question in **Part-A and Part-B***

PART–A (10X2 = 20M)

		Marks	CO	BL
1.a)	Define Statistics	(2M)	CO1	BL1
b)	Define primary and secondary data	(2M)	CO1	BL1
c)	Define concept of central tendency	(2M)	CO2	BL1
d)	Find Harmonic mean for the data: 8, 10, 40, 26 .	(2M)	CO2	BL1
e)	Calculate the range of the data set:25, 30, 35, 40, 45	(2M)	CO3	BL1
f)	Write any one formula for measuring degree of skewness	(2M)	CO3	BL1
g)	What is a scatter diagram? Mention its uses	(2M)	CO4	BL1
h)	Write formula for rank correlation with tie	(2M)	CO4	BL1
i)	Find the missing value in the given series: 37, 39, 42, 47, 54, --- 78	(2M)	CO5	BL3
j)	In a certain code "DANGER" is written as "OBESFH". How is "OPPOSITE" written in that code?	(2M)	CO5	BL3

PART–B (5X10 = 50M)

2.   a) Explain rules of tabulation   (5M)   CO1   BL2

.   b) Explain significance of Diagrams and Graphs   (5M)   CO1

(OR)

3   Draw histogram and find average for the following data   (10M)

CO1   BL3

Marks	0 -10	10-20	20-30	30-40	40-50	50-60
Number of students	15	25	60	40	35	25

4.   Calculate the lower and upper quartiles   from the following data   (10M)

CO2   BL3

Class	0 -5	5-10	10-15	15-20	20-25
Frequency	7	25	50	80	100

(OR)

5.   Compute mode of the following data   (10M)   CO2   BL3

Class	0 -10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
Frequency	5	8	7	12	28	20	10	10

6.   (10M)

Explain Measure of Dispersion? Write about range, quartile deviation, Mean deviation , standard deviation   CO3   BL2

(OR)

7. Calculate Karl Pearson's coefficient of skewness for the following data (10M) CO3 BL3

Class	0 -5	5-10	10-15	15-20	20-25	25-30	30-35	35-40
Frequency	2	5	7	13	21	16	8	3

8. Compute correlation coefficient between supply and price of commodity using following data. (10M) CO4 BL3

Supply	152	158	169	182	160	166	182
Price	198	178	167	152	180	170	162

(OR)

9. Define correlation coefficient. Calculate Rank correlation coefficient for the following data. (10M) CO4 BL3

Marks in Maths	35	54	80	95	73	73	44	91	77	81
Marks in English	39	55	78	49	67	55	62	71	56	69

10. i) Five friends P,Q,R,S and T travelled to five different cities of Chennai, Calcutta, Delhi, Bangalore and Hyderabad by five different modes of transport of Bus, Train, Aero plane, Car, and Boat from Mumbai (ii) The person who travelled to Delhi did not travel by boat.(iii) R went to Bangalore by car and Q went to Calcutta by aero plane.(iv) S travelled by boat whereas T travelled by train.(v) Mumbai is not connected by bus to Delhi and Chennai. Then find (5x2= 10M)

1) What is the mode of transport by P? 2) Who travelled by Train?

3) Which city is travelled by S? 4) In which city is travelled by Bus?

5) Who travelled to Delhi?

CO5 BL3

(OR)

11. (10M)

What do you know about direction sense test and explain?

CO5 BL1

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