CB 60:40

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EXAMINATION: DECEMBER - 2022

SEMESTER - II

Sub.: Business Statistics (BBA15- 214)

Date	: 29	/12/2022 To	otal Marks: 60	Time: 10.00am to 12.30pm					
]	Inst	ructions: 1) All questions are continuous 2) Figures to the right							
Q. 1.		Choose the most appropriate of	ption.		(05)				
	1.	7, 8, 7, 7, 2, 5 Median =	·						
		a) 7 c) 2	b) 8 d) 5						
	2.	A graph of cumulative frequen	ncy distribution is calle	ed					
		a) Histogramc) Ogive curve	b) Pie cha d) Bar cha						
	3.	3, 4, 5, 5, 5, 5 Mode of given	data is						
		a) 3 c) 5	b) 4 d) 6						
	4.	If 600 – 800 is the First Quart Q1 =	b) 160.26 d)61.026	= 78, h = 200 & N= 280 then					
	5.	On first 5 assignments of Business Statistics Pratik scores 72,86,92,63 and 77, he wants to mean score = 80, so 6th test score =							
Q. 2.		State True / False			(05)				
Q	1.	Statistics is mathematical science of collection .							
		a) True	b) False						
	2.	The probability of two or mor or in succession is equal to the a) True	probabilities .						
	3.	The correlation can never be (ŕ						
		a) True	b) False						
		a) True	b) False						
	4.	When ranks not given we can't calculate Rank correlation.							
		a) True	b) False						
	5.	The standard error of estimate measures the variability of the observed variability of the observed variable around the regression equation.							
		a) True	b) False						

Q. 3. Write Short notes on (Any Three)

(15)

- 1. Graphical Representation of Data
- 2. Use of Statistics in Business
- 3. Types of variables
- 4. Spearman's Correlation coefficient
- 5. Regression Analysis

Q. 4. Answer in detail (Any Two)

(20)

1. The average monthly attendance of a class is given. Draw Bar chart

Month	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Attendance	42	46	30	50	38	20	36	32

- 2. In a school 35 boys and 85 girls approved in a public school examination. The mean marks of boys were found to be 60%, where as the mean of girls was 40%. Determine average marks percentage of the school.
- 3. The distribution of fortnight wages of 280 employee of a company is as given below:

Fortnight Wages in Rs.	Frequency
Less than 200	12
200 - 400	16
400 – 600	38
600 – 800	78
800 – 1000	80
1000 – 1200	35
1200 - 1400	14
Above 1400	7
Total	N = 280

Find first quartile, median, D₄& P₆₆.

Q. 5. Case study (Any One)

(15)

49	57	59	57	50	45	52	58	56	48
54	50	51	64	49	58	47	53	63	64
49	62	62	54	53	51	53	61	49	47
48	54	48	53	49	46	53	47	51	52
49	56	45	49	51	55	52	46	48	54

2. Calculate the rank correlation coefficient from the following data.

X	75	88	95	70	60	80	81	50
y	120	134	150	115	110	140	142	100

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