TILAK MAHARASHTRA VIDYAPEETH, PUNE BACHELOR OF BUSINESS ADMINISTRATION (B.B.A.) EXAMINATION : DECEMBER - 2023 SEMESTER - II

Sub. : Business Statistics (BBA15- 214)

Date :23/12/2023		T	otal Marks : 6	0 Time: 10.00am to 12.3	0pm		
Inst	ructions:	 All questions are c Figures to the right 	compulsory. nt indicate full ma	ırks.			
Q. 1.	Choose t	the most appropriate of	option.		(05)		
1.	If your a have sco a) 14% c) 70%	score in an examinat ored more marks than	ion is 86 perce you. b) d)	ntile means only candic 86% 100%	lates		
2.		Data is data wh	ich does not hav	e numerical value			
	a) Quali c) theore	tative etical	b) d)	Quantitative numerical			
3.	If both bea) positi	the regression coeffic ve	cient are negati b)	ve the correlation coefficient w Negative	rould		
	c) 0		d)	1			
4.	In a sym	metrical distribution	mean is equal to	median is to mode.			
	a) equal c) appos	site	b) d)	unequal may be			
5.	Mid poi	nt of a class is known	as	mark.			
	a) class : c) unkno	marks own	b) d)	variables constant			
Q. 2.	State Tr	ue / False			(05)		
1.	Two var variable	iables are associated	if variation in o	ne variable do not affect another			
	a) True		b)	False			
2.	The con	clusions obtained in s	statistics are uni	versally true.			
	a) True		b)	False			
3.	The only way to get a census from a population is to make sure the data is collected from every individual in the population.						
	a) True		b)	False			
4.	a) True The prol	a) True b) False The probability of two or more statistically independent events occurring together					
	a) True	cession is equal to th	b)	False			
5.	The use	of statistics has perm	eated almost ev	ery fact of our life.			
	a) True		b)	False			

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

- 1. Use of Probability in Business
- 2. Reading of Graph
- 3. Normal Distribution
- 4. Rank correlation coefficient
- 5. Interpretation of Coefficient of variation

Q. 4. Answer in detail (Any Two)

1. The following are the values of exports of raw cotton (X) and thevalues of imports of manufactured cotton goods (Y) in Crores of Rs. Compute thecoefficient between X and Y.

Computation of Coefficient of Correlation

Xi	42	44	58	55	89	98	66
Yi	56	49	53	58	65	76	58

2. From the following distribution of milk co-operative societies according to procurement of milk per

day (in liters), compute standard deviation

Quantity of Milk	100-150	150-200	200-250	250-300	300-350
Societies	10	20	35	25	10

3. Calculate the standard deviation & CV from the following distribution:

Number of orders	10 - 14	15 – 19	20 - 24	25 – 29	30 - 34	35 - 39
Number of weeks	3	17	15	20	9	4

Q. 5. Case study

A panel of judges A & B graded 7 deebtors and independently awarded the following marks – $\,$

Participants	1	2	3	4	5	6	7
Mark by A	40	34	28	30	44	38	31
marks by B	32	39	26	30	38	34	28

estimate the equation of line of regression & find the value of y when x=36

(20)

(15)