

NOTE / answer **six** question **NO. 4** should be included in your answer .

Q1 / A/ Four branch from students in 1<sup>st</sup> class form 30 , 35 , 40 , 25 students Respectively . if degree mean in biostatistics is 80 , 75, 60, 90 Respectively , find degree mean in all branch ?

B/ Enumerate main aspect to make frequency table ?

Q2 / Find losing amount of

	y	s	c.v
(a)	_____	10	20 %
(b)	50	30	_____
(c)	25	_____	5 %

Q3/ A / What is the value of ( 4 P 2 ) ( 9 C 5 ) ?

Q3/ B / If you know that value variable  $x = 2,6,3,1$   $y = 2,6,9,2$  find

$$1- \sum (y_i - 3) \quad 2- \sum x_i y_i^2 \quad 3- \sum (x_i - 3) (y_i - 5) \quad 4- \sum y_i^2 (\sum y_i)^2 / n$$

Q 4 / A data set of (12) observation , each value multiplied by a constant (5) the new variance (66) m what is the old variance ?

Q 4 / B If you know  $\bar{y} = 25$  find arithmetic mean for  $x_i = y_i + 5$  .

Q 5 From the following data find standard deviation , standard error , coefficient of variance ?

$$Y_i = 14, 24 , 20 , 6 , 8 , 22 , 2 , 16 .$$

Q 6 / A / Find the Median for  $y_i = 2 , 9 , 3 , 7 , 12 , 4 , 5 , 8$  .

Q 6 / B /Find the Mode for  $y_i = 22 , 20 , 13 , 17 , 12 , 14 , 21 , 15 , 18, 19$

Q 7 what characteristics the arithmetic mean? Explain ?

**Good Luck**

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