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UNIVERSITY OF THE PUNJAB

Associate Degree in Commerce / B.Com. Part – I Annual Exam – 2020

Subject: Business Statistics & Mathematics Paper: BC-301

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NOTE: Attempt any FIVE questions. All questions carry equal marks.

Attempt at least TWO questions from each section.

SECTION- I

1. From the following frequency distribution find Mean, Mode, Standard Deviation and Coefficient of variation.

Weekly Earnings (in	No. of Workers	Weekly Earnings (in	No. of Workers
Rs)	,	Rs)	
20 - 24	1	40 – 44	15
25 – 29	4	45 - 49	9
30 - 34	8	5054	. 2
35-39	11		

2. From the following data Calculate Co-efficient of co-relation, regression line Y on X and trend values show (y-y^)=0

×	60	72	73	63	83	80	66	66	74	62
У	40	52	43	49	61	58	44	58	50	45

3. The price and quantities of four commodities in years 2012 and 2015.

Years		A	E	3			D		
	Price	Qty	Price	Qty	Price	Qty	Price	Qty	
2012	10	25	13	21	4	10	9	20	
2015	9	27	12	22	3	14	7	15	

Compute Laspeyre's, Paasche's, Marshal Edgeworth Fisher's index number of prices for 2015.

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4. A population consists of five numbers 0,2, 4, 6, 8 and 10. Take all the possible samples of size 2, without replacement from this population. Find the mean of all samples. From sampling distribution of these sample means.

Calculate:

- (i) The mean and standard deviation of the population
- (ii) The mean and standard error of the sampling distribution of X.
- (iii) Verify the results.

SECTION - II

5. Solve by matrices: 2x+y=-1/2 2x+4y=7

- 6. (a) The sum of two numbers is 64 their difference is 10. Find the two numbers
 - (b) Solve for x and y.

6x - 5y +70=0

4x = 3y - 44

- - (b) Which term of the sequence 8, 1.6,0.32, is 0.00256.

8. The difference between simple and compound interest on a certain sum is Rs. 250 for two years at 5%p.a find the sum

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