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Bachelor of Computer Applications (BCA) Examination I.Semester

Statistical Methods

Tim	e : 3 H	ours]						[Ma	ax. Ma	rks : 40	
Not		tempt a ual mar	. •	parts	from e	ach qu	estion.	All qu	estion	s сатту	
1.	(a)	Define : Statistics, Population, Sample, Variable.									
	(b)	Explain the characteristics of a frequency distribution.									
	(c)	Draw an Ogive by less than method for the following distribution.									
Profit	t									-	
(Rs. i	in crore): 10-2	0 20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
No. c	of										
Com	panies		12		24	15	10	7	3	. 1	
2.	(a)	tendency. Why is arithmetic mean so popular?									
	(b)	The wholesale prices of a commodity for sever consecutive days									
		in a mo	onth is	as follo							
	Day	5	`:	1	2	3	4	5	6	7	
		es/Quinta		240		270	245	255	286	264	
	Calculate the variance and standard deviation.										
	(c)										
-		4th dec						_			
		X	:				6		10		
		F	:		7		. 9		. 3		
3.	(a)										
		arbitrary origin 4, find out mean and central moments:									
		$\gamma_1 = , \gamma_2 = 4, \gamma_3 = 10 \text{ and } \gamma_4 = 45$									
	(b)		Write short notes on:								
		(i) Probability (ii) Compound Event									
	(-)	(iii) Mutually Exclusive Event.									
	(c)										
	Clas								5 00-7	U	
	Freq	:	TO.	12	18	25	16	14	3		

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- (a) Define Poisson distribution with an example, giving its general equation. Also state the conditions under which it is used.
 - (b) Six coins are thrown simultaneously. Find the chance of obtaining(i) Probability of exactly two heads (ii) More than 3 heads.
 - (c) What are the properties of normal distribution?
- 5. (a) Find out Karl pearson's coefficient of corelation for the following:

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- (b) The following data relates to the height (X) and weight (Y) of 1000 business executives: Mean height $(\frac{1}{X}) = 68$ ", Mean Weight $\frac{1}{Y} = 150$ lbs, Std. Dev. (σ) = 2.5", Std. Dev. = 20 lbs, r = + 0.6. Estimate (i) The height of an executive whose weight is 100 lbs' (ii) The weight of an executive whose height is 5 ft.
- (c) Explain theory of attributes.

