المورالوال

Paper: I Marks: 17	New Scheme) (INTERMEDIATE PART-I) 319-(IV) OBJECTIVE		oll No. of Candidate: ratistics (New Scheme) ime: 20 Minutes		
h you think is correct, infilling two or more circles type question paper and	estions as given in objective	each objective type question as A, B, uestion number. Use marker or pen to that question. Attempt as many que	rcle in front of that esult in zero mark	that cir will re	ote:
90) 90	ers is: C) 80	mbers is 8 then sum of numbe B) 70	other blank.  If mean of 10 1  A) 10	1. I	1.
0) E(x) - y	JX - LO	D) E(N) = 07	A) $E(x) + E(y)$		
0)5	n is: C) 4	s in hypergeometric distribution B) 3	No. of paramete	3. 1	
D) none of these	C) multimodal	ving one mode is called:  B) bimodal	A distribution l	4.	
D) pq	C) np	mial Distribution is: B) npq	Variance of Bi	5.	
	re:  B) mutually exclusive D) dependant	(A) P(B), events A and B a exclusive	If P(A \cap B) =  A) not-mutuall  C) independen	6.	
D) standard deviation	C) mean deviation	13) 1111.60	Which is not n	7.	
ndex numbers D) mode	peyre's and Paasche's C) geometric mean		Fisher Index n A) arithmetic	8.	
$D) \sum x p(x)$	C) one	andom variable, then E(c) is: B) zero	A) c		
D) un-grouped data	C) arrayed data	e been arranged in ascending of variable B) grouped data	A) quantitativ		
D) discrete	C) continuous	the sex of new born babies is co B) qualitative	A) quantitativ		
D) one	s from median is: C) zero	olute deviations of observation B) minimum	. The sum of al	12.	4
D) none of these	C) Fisher	tities as weight are used in: nethod B) Paasche's method	A) Laspeyre'		
D) all of these	periment is called: C) simple event	sible outcomes of a random ex B) sample space	A set of all p	14.	
D) average	C) skewness	nt of variation is: persion B) relative dispersion	A) absolute of		
	C) 100	values each value equal to 10 B) 10	A) zero		
ip is: D) frequency	s boundary of each gro C) class interval	between upper and lower class B) average	7. The differen	17	
226-(IV)-319-9000		, , ,	A) into point		

Cay-12-1-11-19

(INTERMEDIATE PART-I) 319 Marks: 68 Statistics (New Scheme) SUBJECTIVE Note: Section I is compulsory. Attempt any THREE (3) questions from Section II. Time: 2:40 Hours (SECTION - I)  $(2 \times 8 = 16)$ Write short answers to any EIGHT questions. Define "Primary Data". i. Define "Variable". ii. Define "Median" with formula. Write two properties of A.M (Arithmetic Mean). Write two demerits of H.M (Harmonic Mean). Define "Mode". vii. Write two properties of G.M (Geometric Mean). viii. Define "Weighted Index Number". If  $\sum p_o q_o = 362$  ,  $\sum p_1 q_o = 428$  ,  $\sum p_o q_1 = 398$  ,  $\sum p_1 q_1 = 470$  then compute Fisher's index number. Define "Price Index Number". X. Write two advantages of Chain base method. xii. Find Paasche's Price Index Number given that:  $\sum p_1q_1 = 1210$ ,  $(2 \times 8 = 16)$ Write short answers to any EIGHT questions. What is simple classification? Define "Grouped Data". ii. Define "Range". iii. What are different measures of absolute dispersion? iv. If Var(x) = 4, Find Var(3x)V. What is "Variance"? vi. If  $\mu_2 = 4$ ,  $\mu_4 = 56$ , Find  $\beta_2$ viii. What is "Kurtosis"? Define "Random Experiment" Define "Equally Likely Events". If P(A) = 0.5, P(B) = 0.2, Find  $P(A \cup B)$  when 'A' and 'B' are mutually exclusive events. A card is selected from 52 playing cards. What is probability that the card is a king? xii.  $(2\times 6=12)$ Write short answers to any SIX questions. Define "Mathematical Expectation" of a random variable. i. Explain continuous random variable with an example. ii. What are the properties of a discrete probability distribution? Given: E(x) = 0 and  $E(x^2) = \frac{8}{9}$ . Find  $E(3x^2 - 2x + 5)$ . Given: E(x) = 0.56, Var(x) = 1.36 and if y = 2x + 1 then find E(y) and Var(y). Define "Binomial experiment". If 'x' is a binomial random variable with n=9,  $p=\frac{1}{3}$  then find S.D(3 + 2x). viii. State probability function of Hypergeometric distribution. Also write its mean and variance. Given: N = 10, n = 2 and k = 2. Find P(x = 0). (Turn Over) Guj -11-19

Paper: I