Serial No. of A	nswer Book MRD-E/XI (A)	Roll Number
	<u>Statistics Part-I</u>	
	<u>Paper-I</u>	Fic. No
		Fic. No
	Statistics Part-I (Pap	per-I)
	SECTION "A"	
	Time: 20 Min	Marks: 15
OTE:Use this s	heet for this section. No marks will be awarded	l for cutting, erasing or overwriting
Q1.Choose the	correct answer from the given choices i.e. (a, b, c, d) ar	nd insert into the relevant box.
(i). He	ight of an individual is variable.	
(A	Discrete (B) Continuous (C) Qualitative	(D) None of these
(ii) Da	ta collected in first hand is calleddata.	
(A	Primary (B) Secondary (C) Frequency (D) None of	these.
(iii). If y	x= 3, 3, 0, 6 then cannot be calculated.	
•	Mean (B) Median (C) Mode	(D) G.M
	aph of Adjacent rectangles is called	
) Historigram (B) Freq:Polygon (C) Histogram	(D) Ogive
	riance of 2 , 2 , 2 , 2 is	
) Zero (B) 2 (C) $\sqrt{2}$ (D) ²	
	e second moment about mean is equal to	
	Mean (B) Variance (C) S.D	(D) All three
	e ideal index number is the index number. Laspeyre (B) Paasche (C) Fisher (D) None of	those
$(viii). \frac{2}{\Sigma}$	$\frac{P_n}{P_o}$ × 100 is called	
	Price Relative (B)Simple Ave: Of Relative (C)Value Index	(D)Simple Aggregative.
•	lex number for the base period will always be	
) 100 (B) 1 (C) Zero (D) 200	_
(x). Pr	bability of a sure event will always be equal to	
	One (B) Zero (C) +2 (D) None of	these
(xi). Pr	ob ^y : of a king from a pack of 52 cards is	
(A	$\frac{4}{13}$ (B) $\frac{1}{4}$ (C) $\frac{4}{52}$ (D)	1
		52
	r any two random variables $E(x-y) = $	
	$E(x)+E(y) \qquad (B) E(x) \pm E(y) \qquad (C) E(x \pm y)$	(U) E(X)-E(Y)
	e binomial Prob ^y :dist ⁿ : has Parameters.) Two (B) Three (C) Four (D) One	
	0 (ax+b) = 0 a ² S.D(x)	of these
	sampling with out replacement, the events are called	
		None of these

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MRD-E/XI (A) <u>Statistics Part-I</u> <u>Paper-I</u>

Time: Allowed: 2.40h

Max. Marks: 60

Marks: 36

SECTION "B"

Q2. Attempt any Nine questions. Each question carries 4 marks.

- (i) Differentiate between Primary and Secondary data.
- (ii) If X = 87 and median = 90. Find mode
- (iii) Write down the properties of Arithmatic mean.
- (iv) Define Dispersion and name the methods of measuring dispersion.
- (v) If mean =10 and m_2 =16. Find C.V.
- (vi) Two dice are rolled. Find the Prob^{y} : that sum of dots is at least 8.
- (vii) Laspeyre's price index number =254.17 and fisher price index number =252.37. Find Paasche's price index number.
- (viii) Explain the fixed and chain base methods for index number construction.
- (ix) State and prove addition law of Prob^y: for mutually exclusive events.
- (x) How many permutations of the letters of the word "HYPERBOLA" be made.
- (xi) If E(x)=3, then find E(2x-1), E(x+1)
- (xii) Find "K" for the Prob^y: distⁿ, given below and find E(x)

Marks: 24

Note: Attempt any THREE questions. Each question carries 10 marks.

Q3. Find mean deviation and standard deviation for the data given below.

Classes	20-24	25-29	30-34	35- <mark>39</mark>	40-44	<mark>45-</mark> 49
f	2	8	15	10	3	2

Q4. Compute Marshal-Edgeworth and Fisher Price index numbers from the following data.

Items	Base	Year	Current Year		
	Price	Quantity	Price	Quantity	
Α	4	50	10	60	
В	4	35	8	40	
С	3	10	6	20	
D	2	5	4	20	

Q5. Find complete binomial distⁿ : for n=4 and $p=\frac{1}{2}$

Q6. Find mean and median of the following

Marks	30-39	40-49	50-59	60-69	70-79	80-89
f	3	5	9	6	3	1