RWP-11-19

ROH NO. 762 Standalled in her the constitute				
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Inne (Part D A 201)

(For all sessions)

Paper Code 6 1 8 3

Statistics (Objective Type)

Tir	ne: 20 Minutes			Marks: 17
NO	TE: Write answers to the	e questions on objective answ	er sheet provided. Four possible a	nswers A.B.C. 8. D to each
ques	stion are given. Which an	swer you consider correct, fill	the corresponding circle A.B.C or t	Digiven in front of each question
with	Marker or pen ink on the	e answer sheet provided		
1.1	Expected value of a ra	ndom variable is equal to		
	(A) Standard	(B) Mean Deviation	(C) Variance	(D) Mean
	Deviation			
2	For a random variable 2	X if var(X)=4 then var(2X+4)	will be.	
	(A) 12	(B) 16	(€) 20 /	(D) 32
3	For a bionomial distribu	ution with parameters n and l	mean and variance are related	as
	(A) Mean=Variance	(B) Mean>Variance	(C) Means Variance	(D) Always coincide
4	in hypergeometric distr	ibution with n=5, K=10 and N	l=20 the mean is:/	
	(A) 2.5	(B) 10	(C) 40 '	(D) 3/4
5	A characteristic that (does not vary from individual	to individual is called	
	(A) Variable	(B) Constant	(C) Contiguous variable	(D) Discrete random variable
(3	A chart in which adjac	ent rectangles are used:		
	(A) Simple Bar Chart		(C) Higtogram	(D) Component Bar Chart
2			ises are 70 then class interval wil	⊧be .
	(A) 40	(B) 50	(C) \$0	(D) 100
8	If $x = 10$, and $y=6+2x$	then , will be.		
	(A) 20	(B) 24	(G) 26	(D) 30
8	Which of the following	is based on all values of a d	ata set?	
	(A) Q,	(B) Median	(E) Mode	(D) Geometric Mean
10.	The geometric mean of	of 0,2,4 and 6 is:		
	(A) 2	(B) O	/(C) 4	(D) 6
11		is a measure of dispersion?		
	(A) First quartile	(B) 2nd quartile	(C) Coefficient of Skewness	(D) Range
12	The standard deviatio			
	(A) The square of va	A	(B) Half of the variance	
	(e) Square root of th		(D) Two times of the variance	e
13	The first moment about	ut mean is equal to		
	(A) 1	(B) 0	(C) Variance	(D) Standard Deviation
14				
1.	$\rightleftharpoons^{P,q}$ ×100 is call	led		
	2 , P , G	(B) Laspeyre's index	(C) Fisher's index	(D) Value index
	(A) Paasche's index		3	(-,
15		of Laspeyre's and I	(C) Harmonic mean	(D) Median
		(B) Seometric mean	A 12.1 • 10.10 A 10.10 C 10.10	(6)
16	The probability of obt	taining an even number wher		
	1	(P) -	(C) -	(D) 1
	(A) 1	(B) 3	15	5-7 8
17	If A and B are two n	ion-mutually exclusive events		IBL DANIELD IN
	(A) P(A)+P(B)	(B) P(A)P(B)	(C) P(A)+P(B)-P(A ← B)	(D) P(A/B)P(B)

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	Pri	ces	Quan	titios
Commodity	2000	2002	2000	2002
A /	70	75	300	310
В	72	80	240	275
	25	32	132	148

(b) If the probability of a horse A winning a race is 1/5 and that of a horse B is 1/6. What is the probability that one of them wins?

8. (a) The probability distribution of a random variable x is given as.

X	0	1	2	3
P(x)	0.1	0.2	0.3	0.4

360

Show that E(5x+8)=5E(x)+8

rationle Y Probability density function is (b) For a continu

uous rani	Upin valiable A, riobbo	mily demony		27	-
	!			De Zu	- 31
f(v)=cv	0 <x<2< td=""><td>Find (i) value of c</td><td>(ii)</td><td>$P(\frac{1}{2} \le x)$</td><td>~ n'</td></x<2<>	Find (i) value of c	(ii)	$P(\frac{1}{2} \le x)$	~ n'

9. (a) A fair coin is tossed four times. Find the probability that there will appear

(iii) Atmost 2 heads. (i) Atleast 2 heads.

(b) In hypergeometric distribution determine the following

(ii) n=7, N=12, K=8, Find P(x=6) (i) n=4, N=10, K=3, Find P(x=2)

