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No. of printed pages: 02

[2 & A2]

SARDAR PATEL UNIVERSITY BBA (Gen.) (IHSem.) Examination Thursday, 8th December-2016 02.00 pm - 04.00 pm UM03CBBA06 – Statistics for Management-I

Total Marks: 60

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No	te:	(i) Figu (ii) Grap	res to that he paper	ne right i will be	ndicate provide	marks	quest.			,		• # to E = 2 *	
1 A.	 ν	Vrite type	s of data	. State so	ources of	f data and	l write al	out any t	wo of the	sources i	n detail.		[08] [07]
В.	F	From the prices X and Y of shares A & B resp. given below. State Which share is more stable in											
•		alue.	· · · · · · · · · · · · · · · · · · ·	54	52	53		58 52		51	49		
	-	$\frac{X}{Y}$	55 108		105	105		07 10		104	101		
	L	1	100	107					_				
		OR Find Mean, Median, Mode and Quartile deviation for the following distribution.											
.1 A	· I	ind Mea	n, Media	in, Mode	and Qua	artific dev	iduomoi	VIAO 10110			1 - 4 40	1	
. 11	ſ	Class	4-8	8-12	12-16	16-20			28-32		36-40		
	Ì	f	5	8	18	25	15	12	10	5			
				1.1.6		na framu	ancy if m	 ean = 33.		-			[07]
В		From the	followit	ig data ii	na missi	ng nequ	sncy ii ii	ean = 33.				•	
			C	lass	0-10	10-20	20-30						
			f		10	15	30_	?	25	20	<u>. </u>		٠
				the law o	fodditio	n of prot	ability f	or two eve	ents.				[07]
Q.2 A										4 ****	• •		[08]
В	} .	Two cards are drawn at random from a pack of 52 cards. Find the probabilities that,											
	.1	(1) Both	are space	le									
		(2) One	is queen	and othe	r is Killg mit .	,							•
		(3) Both (4) Both	are diar	nond.	·	•							
		(.,					OR					¢ .	
		. D C	tha tam	o rando	n evneri	ment mi	ntnally e	clusive e	vents, ra	ndom expe	eriment,	÷.	[07]
Q.2 . A	١.	Indepen	dent eve	nts.	n caper								
		_				07)	0.15.4	Emd (i)	$D(\bar{A} \cap \bar{A})$	(ii) and	P(A/B).		[08]
]	В.	If P(A)	= 0.40, 1	P(B)=0.	55 and F	P(AUB)=	= 0.15 tn	m mu (1)	L (VIII	(ii) and	x (122)		,
			•								100	a thàn 6	[08
Q.3	3 A. In a normal distribution 60% observations are more than 60 and 6% o then find the mean and variance of the distribution.										oservations are less than		
-		then fir	nd the me	ean and v	ariance	of the di	stributioi	1.					
	D	Give co	onditions	s. p.d.f t	propertie	s and use	es of pro	oability di	stributio	ns that you	ı have stu	died.	[07
	В.	OIAC ()		. L I	- · I								

OR

Q.3 A. Give Q1 = 20 and Q3 = 40 for a normal distribution. Find its mean and variance.

[08]

B. For a Poisson variate if 3P(x=2) = P(x=4) then find mean, variance and standard deviation.

[07]

Q.4 A. Draw \overline{X} and R charts for the following data and state your conclusions:

[08]

Sample no.	1	2	3	4	5	6	7	8	9	10.
X	12.8	13.1	13.5	12.9	13.2	14.1	12.1	15.5	13.9	14.2
R	2.1	3.1	3.9	2.1	1.9	3.0	2.5	2.8	2.5	2.0

(For n=5, $A_2=0.577$, $D_3=0$, $D_4=2.115$)

B. Write the uses of C- chart and draw C- chart. If the number of defects noticed in 20 cloth pieces are 1, 4, 3, 2, 5, 4, 6, 7, 2, 3, 2, 5, 7, 6, 4, 5, 2, 1, 3, 8. Also draw your conclusion.

OR

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[07]

).4 A. Give the difference between:

(1) p- chart and np- chart

[08]

- (2) charts for attributes and charts for variable.
- **B.** Write the control limits of p chart and np chart. Also draw np chart and state your conclusions for the samples. Each of 250 radios, inspected for 12 days as given below:

[07]

		· · · · · · · · · · · · · · · · · · ·										
Sample	1	2	3	4	5	6	7	8	9	10	11	12
No. of defective	25	47	23	30	24	34	39	32	35	22	45	40

_ x - x