STATISTICS		12" CLASS -	- 1 Annual		IIVIE. 20 IVIIIVOTES
	Management of the control of the con	0	BJECTIVE	ı	MARKS: 17
NOTE You h	ive four choices for	each objective typ	e question as A, B	, C and D. The	choice which you think
is cor	ect; fill that circle in	front of that ques	tion number. Use	marker or pen	to fill the circles.
Cuttir QUESTION NO.	g or filling two or m	ore circles will resu	GK-12	1 that question - 24	1
	Iculated from po		*		
1				(D) Parame	ter
	ic' (B) Mea				
	ence between a				lon sampling error
					Non-sampling error
	tical inference ca			approacties.	
(A) 4			(D) 5		
4 The point	estimate of $\mu$ is				
$(A) \sigma$	(B) $\overline{X}$ (C)				
5 A hypothe	sis which is to be				
(A) Null	(B) Composite		(D) Alterr	native	
	ear regression m				
	ariables (B)				D) Two variables
7 For the le	ast squares regre	ession line : $\hat{y}$ =	a + bx, the s	slope is	
(A) x	(B) Zero (C)	b (D) a			
8 Co-efficie	nt of correlation	lies between	* (		
(A) 0 and	+1 (B) -1 and	+1 (C) -1	and 0 (D)	-2 and +2	
	r of 100 men is	•			İ
(A) Variak	le (B) Consta	ant (C) Num	erical value	(D) Attrib	ute
10 If (AB) >	$\frac{(A)(B)}{n}$ , then as	sociation is			
(A) Negat	ve (B) Perfe	ct (C) Positi	ve (D) No	association	
	sition of time ser				
	is of time series		(C) Historia	ram (D) I	Detrending
	rices before eid		(6) (	ζ= /	
	r trend		riations		
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	structions that re				
	rs (B) Hardwar			3	
	al distribution,				
	(B) 0.6745				
(A) $0.5 \sigma$		<i>o</i> (c) 0.7	3/30 (0	, 1.50	
	stribution is	mandal (C	A Tri modal	(D) Multi	imodal
(A) Uni-m		modal (C			miodai
	andard normal v				
(A) 0.341			0.4986	(D) 0.33/2	
	is a subpart of th		/=1 =		
(A) Samp	ing (B) Popula				
	c†			/ DADER /	CODE 0102 \
′ 45 (Obj) ·	- 1 <sup>st</sup> Annual 20	24 SEQU	FINCE - 2	( PAPER (	CODE - 8183)

	ON NO. 2 Write short answers any Eigh	r (o) h	arts of the following	1.
(i) In	Normal Distribution; $Q_1 = 8$ and $Q_3 = 17$	(ii)	Write equation of normal	distribution if mean is
Fi	nd S.D		10 and variance is 9	
	rite at least 2 properties of normal distribution.	(iv)	What is point of inflection	<del></del>
(v)   W	rite a short note on importance of normal	(vi)	Confidence Interval for me	an is given as :
	stribution.		$12.18 < \mu < 20.56$ Find $\bar{x}$	
	plain the concept of confidence Interval.	(viii)	What is test statistic ?	
	rite a short note on testing of hypothesis.	(x)	If $\mu = 5$ , $t = 3$ , $\bar{x} = 14$ , $n = 14$	
	fferentiate between ROM and RAM.	(xii)	Describe the function of m	odem.
	ON NO.3 Write short answers any Eight		arts of the following	16
i) W	hat is meant by "Sampling"?	(ii)	Define finite population. A	lso give an example.
iii) Gi	ven $\sigma$ = 6, and n = 30 find $\sigma_{\overline{X}}$ .	(iv)	If $n = 25$ and $\sigma_{\overline{X}} = 5$ ,	Find $\sigma^2$
Given $b_{xy} = 0.82$ , $r_{xy} = 0.97$ , Find $b_{yx}$		(vi)	Define Sampling with repla	
			Given y = 6, 8, 10 and	
vii)   Gi	ven $r_{xy} = 0.8$ , $S_x = 4$ , $S_{xy} = 20$ , nd standard deviation of y i.e $S_y$	(viii)	Find regression coefficien	
Gi	ven $p_1 = \frac{2}{3}$ , $n_1 = 200$ , $p_2 = \frac{1}{2}$ , $n_2 = 200$ ,		Given: $\overline{y} = 1.87$ , b = 0.25,	
IX)		(x)	Find value of y-intercept	
	$\mu_{\widehat{p}_1-\widehat{p}_2}$			
xi) De	fine positive correlation. Also give an example.	(xii)	Given $\hat{y} = 45 - 10x$ , Find	ŷ when x = 3,4
UESTIC	ON NO. 4 Write short answers any Six (6)	parts	of the following	12
i) Ex	plain contrary class.	(ii)	Define contingency table.	
iii) Gi	$ven \sum d^2 = 440 \text{ and } n = 11.$	<i>(</i> : , )	Name the methods used to	estimate secular
	nd Spearman's coefficient of rank correlation.	(iv)	trend.	
v) Ex	plain analysis of time series.	(vi)	Define Irregular movemen	ts with example.
	rite two examples of seasonal variations.	1	Given $\hat{y} = 13+8x$ and $x = -$	2 -1 0 1 2
	•	(viii)	Find trend values.	2, 1,0,1,2
ix) If	v′ 460 V′ 400 v 6 v 2 5 40 i	•		
A) IT	$Y_2 = 160$ , $Y_1 = 100$ , $X_2 = 6$ , $X_1 = 2$ Find Semi-		te trend line. $Y = a + bx$	
	SECTION	ON-II		
ote: A	Attempt any Three questions from this section			
		_		8×3 = 24
Q. 5(a)	If $X \sim N$ (25, 16), find $Q_1$ and $Q_3$			6×3 = 2
		a of sta	indard normal distribution.	8.3 = 20
Q. 5(a) (b)	If X $\sim$ N ( 25 , 16 ) , find $Q_1$ and $Q_3$ Find the two points containing the middle 95 % are			
Q. 5(a) (b)	If $X \sim N$ (25, 16), find $Q_1$ and $Q_3$ Find the two points containing the middle 95% are Draw all possible of size 2 without replacement from	m the le	etters of word " KASHM ". Fir	nd the proportion of
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Q. 5(a) (b)	If X ~ N ( 25 , 16 ) , find $Q_1$ and $Q_3$ Find the two points containing the middle 95 % are Draw all possible of size 2 without replacement from vowel letters in each sample and show that. $\mu_p = 0$ Given $\mu_1 = 4500$ , $\mu_2 = 4000$ , $\sigma_1 = 200$ , $\sigma_2 = 250$	m the lo $=\pi$ a $0$ , $N_1$ =	etters of word "KASHM". Find $\sigma_p^2 = \frac{\pi(1-\pi)}{n} \times \frac{N-n}{N-1}$ = 400 , N <sub>2</sub> = 300 , n <sub>1</sub> = 100	ad the proportion of and $n_2 = 50$
Q. 5(a) (b) Q. 6(a)	If X ~ N ( 25 , 16 ) , find $Q_1$ and $Q_3$ Find the two points containing the middle 95 % are Draw all possible of size 2 without replacement from vowel letters in each sample and show that. $\mu_p = 0$ Given $\mu_1 = 4500$ , $\mu_2 = 4000$ , $\sigma_1 = 200$ , $\sigma_2 = 250$ Determine the expected mean and standard definitions.	m the $R$ 0 , $N_1$ = eviation	etters of word "KASHM". Find $\sigma_p^2=\frac{\pi(1-\pi)}{n} \times \frac{N-n}{N-1}=400$ , $N_2=300$ , $n_1=100$ n of the sampling distribution	and the proportion of and $n_2 = 50$ on of difference of
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Q. 5(a) (b) Q. 6(a) (b) Q. 7(a) (b) Q. 8(a)	If X ~ N ( 25 , 16 ) , find $Q_1$ and $Q_3$ Find the two points containing the middle 95 % are Draw all possible of size 2 without replacement from vowel letters in each sample and show that. $\mu_p = 0$ Given $\mu_1 = 4500$ , $\mu_2 = 4000$ , $\sigma_1 = 200$ , $\sigma_2 = 250$ . Determine the expected mean and standard dethe means if sampling is done (i) with regression with mean 80 and S.D.7? Given that: $n_1 = 150$ , $\overline{x}_1 = 1400$ , $\sigma_1^2 = 120$ , $n_1^2 = 120$ , $n_2^2 = 120$ . Obtain regression line y on x from the following data $\overline{x}$	m the left $\pi$ at $0$ , $N_1$ eviation $\pi$ 83. Can $\pi$ 2 = 200 ta $\pi$ 5 $\pi$ 20 mation $\pi$ 8, $\pi$ = 8.0	etters of word "KASHM". Find $\sigma_p^2 = \frac{\pi(1-\pi)}{n} \times \frac{N-n}{N-1}$ and $\sigma_p^2 = \frac{\pi(1-\pi)}{n} \times \frac{N-n}{N-1}$ at $\frac{N-n}{N-1}$ and $\frac{N-n}{N-1}$ at $\frac{N-n}{N-1}$ and $\frac{N-n}{N-1}$ at $\frac{N-n}{N-1}$ and $\frac{N-n}{N-1}$ are $\frac{N-n}{N-1}$ and $\frac{N-n}{N-1}$ at $\frac{N-n}{N-1}$ and $\frac{N-n}{N-1}$ are $\frac{N-n}{N-1}$ and $\frac{N-n}{N-1}$ at $\frac{N-n}{N-1}$ and $\frac{N-n}{N-1}$ are $\frac{N-n}{N-1}$ are $\frac{N-n}{N-1}$ and $\frac{N-n}{N-1}$ are $\frac{N-n}{N-1}$	ad the proportion of and n <sub>2</sub> = 50 on of difference of placement
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