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SIIIS 196 B-14

B.Sc. IIIrd Semester Degree Examination Mathematical Statistics (S.Q.C And Demographic Methods) Paper - III

Tin	ne:3	Hours	S		Maximum	Marks: 80			
Ins	tructi	ons to	candidates:						
	Statistical tables and graph sheets are supplied on request								
I	Answer the following questions								
	1.	The process control is achieved through the technique of							
		a) c)	Sampling inspection Control chart	b) d)	Pie chart Bar chart				
	2)	Ma	in tools of S.Q.C are			(1)			
		a)	Shewart chart	b)	Acceptance sampling plan				
		c)	Both a and b	d)	None of these				
	3)	Control chart applicable for variables is							
		a)	\overline{x} - chart	b)	p - chart				
		c) ,	c - chart	d)	None of these				
	4)	Acceptance sampling plan are pre ferable due to							
		a)	The economy in inspeat	ion					
		b)	Protection to perishable	e items					
	c) Increase efficiency in the inspection items								
		d)	All the above		•				
	5)	L(p) is the O.C function then average outgoing quality (AO ϕ) is							
		a)	6σ	b)	$D_4\overline{R}$				
		c)	P. L(P)	~ d)	(N-n)L(p)				

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(1)

[Contd....

6)	vital statistics is mainly concerned with			th	(1)	
	a)	Births	b)	Deaths		
	c)	Marriages	d)	All the above		
7)	P, is the population after time 't' from the census year then usual notations an					
	estimate of P_i is					
	a)	P_o + (B+D)	b)	P_o + (I - E)		
	c)	(B - D) + (I - E)	d)	$P_o + (B - D) + (I - E)$		
8)	The ratio of births to the deaths in a year is called					
	a)	Survival rate	b)	T.F.R		
	c)	Vital index	d)	Population death rate		
9)	In the construction of life table one value of e_x^0 in terms of l_x is					
	a)	$e_x^0 = l_x + 1/l_x \times p_x$	b)	$e_x^0 = T_x/l_x$	(1)	
	c)	$e_x^0 = T_x - l_x$	d)	$e_x^0 = d_x/l_x$		
10)	The vital index for population growth was provided by:				(1)	
	a)	Benjamin	b)	Baraley		
	c)	Karl pearson	d)	R pearle		
11)	The	The variation due to causes is tolerable		ses is tolerable	(1)	
12)	Nun	ber of defects follows		_ distribution	(1)	
13)	Sources of obtaining vital statistics are					
14)	The probability of $(\mu_i \pm 3\sigma_i)$ is					
15)	Total fertility rate formula					
Ans	wer a	ny five of the following que	stions	S		
16)	How to construct the control chart explain					
17)	Explain					
	i)	Assignable causes			(5)	
	ii)	Chance causes				

II

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	18)	Explain the interpretation of \bar{x} and R chart	(5)			
	19)	Define the following i) A. O. Q				
		ii) L.T.P.D				
	20)	Explain the method of obtaining vital statistics	(5)			
	21)	Explain the construction of life table	(5)			
	22)	What is mortality? Discuss C.D.R with merits and demerits.	(5)			
m	Answer any four of the following questions					
	23)	Describe the construction of \bar{x} and R charts in detail	(10)			
	24)	Explain the construction of P and np or 'd' chart and also write the application of p-chart .	of (10)			
	25)	Explain the single sampling plan and also how to obtained u.c cune A. O. Q curve and ATI curve for S.S.P				
	26)	Describe the fertility rate in detail	(10)			
	27)	What are the assumption description and construction of life table?	(10)			
	28)	Explain population growth in particular G.R.R and N.R.R	(10)			

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