Roll No.

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SIIIS 193 B-2K13

B.Sc. IIIrd Semester Degree Examination

Mathematical Statistics

· (S.Q.C. and Demographic Methods)

Paper - III

Tim	ne : 3 I	Hours	,				Maximu	m Marks : 80	
	In	struc	tions to Candidates:						
		S	Statistical tables and graph sh	eets a	re su	uppli	ied on request.		
I.	Ans	swer	the following questions					(15×1=15)	
	1)	The	course of quality control was set by shewhart in the year:						
		a)	1924	b)		1925	5		
		c)	1926	d)		1927	7		
	2)	The	faults due to assignable ca	uses:	es:				
		a)	Can be removed		b)		Cannot be removed		
		c)	Can some time be remove	d	d)		all the above		
	3)	Cha	l of a product is:						
		a)	tolerable		b)		incontrollable		
	c) not effecting the quality of a pr				rodu	ct	•		
		d)	none of these.				•		
	4)	4) The control limits $(\mu \pm 3\sigma)$ are know as:							
		a)	Modified control limits		b)		Natural control limits		
		c)	Specified control limits		d)		None of these		
	5)	The	is known as:						
	-	a)	Consumer's risk		b)		Producer's risk		
		c)	Type II error		d)		None of these.		
		•	- •						

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6)	Con	nplete count of	country is known as:							
	a)	census			b)	Vital statistics				
	c)	demography			d)	none of these				
7)	The fertility of a women is maximum in the age group									
	a)	15-20 years			b)	20-24 years				
	c)	25-29 years			d)	none of these				
8)	Registration of vital statistics is organised by									
	a)	Director gene	ral		b)	Registrar general				
	c)	census commi	issione	er	d)	all the above				
9)	The death rate of babies under one year is known as:									
	a)	neonatal mort	ality ra	ate	b)	infant mortality rate				
	c)	maternal mort	ality ra	ate	d)	none of these.				
10)	rovided by:									
	a)	Benjamin			b)	baraley				
	c)	karl pearson			d)	R. pearle				
11)	The most important word in the term of statistical quality control is									
12)	A control chart contain lines									
13)	"3σ" control limits were proposed by									
14)	Double sampling scheme (plan) propounded by									
15)	Life tables are normally prepared									
Solv	e any	five questions					$(5\times5=25)$			
16)	Writ	e a note on ass	ignable	e causes and	d chanc	e causes				
17)	Explain the construction of control chart in general									
18)	Defi	Define								
	a)	Acceptance qu	ality l	evel (A.Q.L	.)		•			
	b) L.T.P.D.									
19)	Describe uses of statistical quality control.									
20)	Explain the methods of obtaining vital statistics.									
21)	Describe C.D.R State its merits and demerits.									
22)	Explain									
	a)	A.S.F.R.	b)	T.F.R.						

II.

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Solve any four questions

 $(4 \times 10 = 40)$

- 23) Describe the control charts for variables in detail.
- 24) Explain the construction of p-chart and interpretation of p-chart.
- 25) Describe single sampling plan, obtain O.C., A.O.Q. and A.T.I. curves for this plan.
- 26) Explain, direct and indirect methods of standardized death rates with merits and demerits.
- 27) Describe gross reproduction rate and net reproduction rate.
- 28) Explain the construction of life table, mention the uses of a life table.