TDC Odd Semester Exam., 2020 held in July, 2021

STATISTICS

(Pass)

(5th Semester)

Course No. : STSP-501

(Applied Statistics—II)

Full Marks : 35 Pass Marks : 12

Time : 2 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, selecting **one** from each Unit

Unit—I

- (a) Define the terms 'process control' and 'product control'.
 3
 - (b) Write the criterion for detecting lack of control in \overline{X} and R charts. 4

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(2)

2.	(a)	Write the limitations for control chart for variables.	2			
	(b)	Define the control chart for number of defects per unit.	3			
	(c)	Give the interpretation of <i>p</i> -chart.	2			
Unit—II						
3.	(a)	What do you understand by acceptance sampling procedure?	3			
	(b)	Describe the sampling inspection plan.	4			
4.	(a)	Distinguish between producer's risk and consumer's risk.	3			
	(b)	What is average sample number (ASN)?Why is it calculated?2+1=	•3			
	(C)	Under what circumstance would you advocate the use of an AOQL sampling plan?	1			
UNIT—III						
5.	(a)	Describe the methods of obtaining vital statistics.	3			
	(b)	Explain the difference between crude death rate and standardised death rate.	4			
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(3)

6.	(a)	Explain why the mortality situations of two places should not be compared on the basis of 'crude death rates'.	3		
	(b)	Define the following :	4		
		(i) Gross reproduction rate			
		(ii) Net reproduction rate			
		UNIT—IV			
7.	(a)	Define the following :	4		
		(i) Life table			
		(ii) Complete life table			
		(iii) Abridged life table			
		(iv) Radix of a life table			
	(b)	Mention the uses of a life table.	3		
8.	(a)	Explain the structure of a complete life table.	3		
	(b)	Why is an abridged life table prepared? Enumerate the columns of an abridged life table. 2+2	=4		
UNIT—V					
9.		cuss the methods of collection of official istics in India.	7		

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(4)

- **10.** Write notes on the following : $3\frac{1}{2}+3\frac{1}{2}=7$
 - (a) National Statistical Commission (NSC)
 - (b) Central Statistical Organization (CSO)

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