11/28/2020 16STU22

Exam Date & Time: 29-Sep-2020 (10:00 AM - 01:45 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image: 30mins

BSc DEGREE EXAMINATION MAY 2020 (Sixth Semester)

Branch - STATISTICS STATISTICAL QUALITY CONTROL-II [16STU22]

Marks: 75		Duration: 210 mins.
	SECTION A	
Answer all t	he questions.	
1)	What is TQM?	(2)
2)	Define Quality.	(2)
3)	What is meant by Statistical process control?	(2)
4)*	Define Control Charts.	(2)
5)	Write the types of control charts for attributes.	(2)
6)	State the formulae for control limits on c-chart.	(2)
7)	What is process capability?	(2)
8)	What is the main goal of SPC?	(2)
9)	Define Reliability.	(2)
10)	Define Failure Rate.	(2)
	SECTION B	
Answer all	the questions.	
11)	Explain the needs for Quality improvement.	(5)
a)		
[OR] b)	Discuss about the fundamentals of TQM.	(5)
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12)	Explain Famure Model effect.	(5)
a)		
[OR] b)	Explain chance and assignable causes of variation.	(5)
13)	What are the applications of c-chart?	(5)
a)		
[OR] b)	Derive the limits for u-chart.	(5)
14)	Write a short note on process capability index.	
a)		(5).
[OR]	Explain Quality improvement.	(5)
1.5)	Explain the concept of IFR.	
		(5)
a) [OR] b)	Describe Constant Failure Rate.	(5)
	SECTION C	
Answer 3	out of 5 questions.	
16)	Explain the elements of TQM.	(10)
17)	Derive the steps for \bar{x} -chart and R-chart in control charts.	(10)
18)	Construct the limits for p chart and np-chart.	(10)
19)	Describe process capability ratio for an off center process.	(10)
20)	Explain in detail the exponential distribution in reliability.	(10)

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