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GUJARAT TECHNOLOGICAL UNIVERSITY

GUJAKAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER– VIII (New) EXAMINATION – WINTER 2019			
Subject Code: 2181920 Date: 25/1			1/2019
	•	Name: Quality Engineering	
Tim	Time: 02:30 PM TO 05:00 PMTotal Marks		
Instr	uction		
		Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
			MARKS
Q.1	(a)	Define following: (1) Quality (2) TQM (3) Poka yoke.	03
	(b)	Discuss the role of Quality Engineer in organization	04
	(c)	Explain Seven tools of Quality Improvements.	07
Q.2	(a)	Define Zero defects. Discuss various steps in implementing Zero defects.	03
-	(b)	Explain any two TQM models.	04
	(c)	Discuss various Quality costs	07
		OR Discuss Dala of 58 in quality improvements in manufacturing sectors	07
	(c)	Discuss Role of 5S in quality improvements in manufacturing sectors.	07
Q.3	(a)	Define following: (1) Parameter Design (2) System Design (3) Tolerance Design	03
	(b)	C C	04
	(c)	Explain Taguchi method. Discuss various steps in Taguchi method	07
		OR C	
Q.3	(a)	Compare Lean and Agile manufacturing system	03
	(b)	Discuss various Quality dimensions in service sectors.	04
	(c)	Explain "Quality Triology" as given by J.M.Juran.	07
Q.4	(a)	Explain the process of operation of Quality Circle.	03
C	(b)	What is six sigma? Compare Six sigma and TQM.	04
	(c)		07
• •		OR	
Q.4	(a)	Define Benchmarking with its types.	03
	(b) (c)	Discuss Implementations Requirements and barriers in TQM. Explain QFD. Discuss house of Quality –product planning matrix	04 07
	(t)	Explain QFD: Discuss house of Quanty -product plaining matrix	07
Q.5	(a)	Discuss Concurrent Engineering.	03
	(b)		04
	(c)	Explain basic concepts, scope and implantation barriers of ISO 14000	07
0.5	(a)	OR Discuss PDCA cycle	03
Q.5	(a) (b)	Discuss PDCA cycle List various tools and techniques of KAIZEN. Also discuss any two of	
	(b)	List various tools and techniques of KAIZEN. Also discuss any two of them	04
	(c)	Explain World class manufacturing system	07
