Q-

C.U.SHAH UNIVERSITY Summer Examination-2017

Subject Name: Total Quality Management

	Subject	t Code: 4TE06TQM1	Branch: B.Tech (Automobile,	Mechanical)
	Semest		Time: 02:30 To 05:30	Marks: 70
	Instruc			a
		Use of Programmable calculator & any oth	-	bited.
	• •	Instructions written on main answer book	•	
	. ,	Draw neat diagrams and figures (if necess	ary) at right places.	
	(4)	Assume suitable data if needed.		
1				1.4
-1	1)	Attempt the following questions:		14
	1)	The statement of an organization's commitme $(A = B)$ Ninging (B) Ninging (B)		
	2)	(A) Policy (B) Vision (C) Mission (D)P		
	2)	Which of the following is not a defect metric (A) L		
	2)	(A) Location (B) Cause (C). Time to fix		
	3)	Quality improvement programs may require	the product itself to be changed.	
		(A)True (B)False		
	4)	The basis upon which adherence to policies i		
	-	(A) standard (B).Requirement (C) Expe		
	5)	Which of the following does not form a part		
		(A). Standards (B) Quality attribute (C)	Quality control (D) Procedures	
	6)	The focus on the product is highest during		
	-	(A)a walkthrough (B) checkpoint review		
	7)	During an inspection, inspectors normally ma	ake suggestions on correcting the de	effects found.
	0)	(A). True (B) False		
	8)	There are numbers of function type	S.	
		(A) 2 (B) 3 (C) 4 (D) 5		
	9)	The Quality manager will find it difficu	• I	•
		Improvement Process, unless his organizatio		
		(A)The organization's policy (B)A challeng		Il the above
	10)	Baselines measure the		
		(A) situation prior to (B) Expectation of be	enefits of (C) Effects of (D)Des	sirability of
	11)	The term "benchmarking" means		
		(A) Comparing with past data from your org		
		market survey (C)Comparing with the resul	• • • •	
	12)	The activity which includes confirming unde		
		(A)Code walkthrough (B)Inspection (C) R		ıgh
	13)	The following can be considered to measure		
		(A) Customer satisfaction (B) Defects (C)	Rework (D) All the above	
	14)	The objective of TQM is		
		A) to improve process (B)To improve prof	itability (C) All of the above (I	D) None of the
		above		

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Attempt any four questions from Q-2 to Q-8:

Q-2	a)	Discuss Evolution of TQM.	07
	b)	Explain Deming Philosophy for TQM. Explain Deming wheel with new gear product.	07
Q-3	a)	Discuss 5S for office area.	07
	b)	Explain continuous process improvement with all factors.	07
Q-4	a)	Discuss Taguchi quality loss function.	07
	b)	Draw Cause and effect diagram for problem of rough surface in Laptop product.	07
Q-5	a)	Explain Process capability – meaning, significance and measurement.	07
	b)	A random sample of 4 is to be selected from a lot of 10 articles, 3 of which are defective.	07
		What is the probability that the sample will contain exactly 1 defective?	
Q-6	a)	Describe Reliability concepts. Explain and draw bath tub curve in detail.	07
	b)	Different tool to use regression analysis.	07
Q-7	a)	How the regression analysis use for the prediction purpose.	07
	b)	Write the points of TQM-framework, benefits, awareness and obstacles.	07
Q-8	a)	Explain with examples of QS 9000 – ISO 14000 – Concepts, Requirements and Benefits.	07
	b)	What is cost of quality? Explain its types in detail.	07

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