A Reg. No.:

Question Paper Code: 99775

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022

Open elective

Civil Engineering

19UME975- TOTAL QUALITY MANAGEMENT

(Common to CSE, ECE, EEE, EIE, IT, Chemical and biomedical engineering branches) (Regulation 2019)

Duration: Three hours Maximum: 100 Marks

		Answer AI	LL Questions		
		PART A - (10	x 1 = 10 Marks)		
1.	Which one is as of	CO1- R			
	(a) Assurance	(b) Reputation	(c) Tangibles	(d) Empathy	
2.	"Quality is fitness		CO1- U		
	(a) Juran	(b) Crosby	(c) Deming	(d) None of these	
3.	Seiso means to			CO2- R	
	(a) Maintaining	(b) Cleaning	(c) Ordering	(d) Self-discipline	
4.	Quality assurance i	CO2- U			
	(a) Controlling quality		(b) Managing quality		
	(c) Inspections		(d) Removal of defects		
5.	Seven basic tools o	of quality proposed by		CO3- R	
	(a) Ed. Deming	(b) Juan	(c) Crosby	(d) Kaoru Ishikawa	
6.	The concept of zero	CO3- R			
	(a) Six sigma (b) Continuous improvement (c) Just in Time			(d) Zero defect	
7.	Productivity means	s a		CO4- R	
	(a) output/input	(b) result/capital cost	(c) cost/efficiency	(d) growth/efficiency	
8.	The goal of TPM is	CO4- R			
	(a) managements	(b) employees	(c) customers	(d) services	

9.	Product realization is related to						
	(a) p	product	(b) process	(c) quality	(d) benchm	arking	
10.	Industry specific standards use						
	(a)	a) ISO 9000 (b) ISO 14000 (c) ISO 22000				(d) None of these	
			PART – B	$(5 \times 2 = 10 \text{Marks})$			
11.	Wri	te the equation tl	nat would quantify qu	ality	CO1- U		
12.	What are quality statement?					CO2- U	
13.	What is meant by bench marking?					CO3- U	
14.	Exp	lain Taguchi qua		CO4- U			
15.	List	out the main ele		CO5- U			
			PART –	C (5 x 16= 80Marks)			
16.	(a)	a) Discuss about Various elements of TQM. Or				(16)	
	(b)					(16)	
17.	(a)	What is PDSA suitable illustra	CO2- U	(16)			
	(b)	Discuss the va appraisal system	CO2- U	(16)			
18.	(a)	Explain six sigma process (DMAIC) and advantages of six sigma. Or				(16)	
	(b)					(16)	
19.	(a)	measure.				(16)	
	(b)	Or (b) Describe Taguchi quality loss function in detail.				(16)	
	()	S	1 3		CO4- U	()	
20.	(a)	(a) With the aid of a pyramid of a pyramidal diagram, describe the documentation hierarchy stipulated in ISO 14001 standard. Or				(16)	
	(b)	Describe the	concepts, require	ements and documentation	CO5- U	(16)	