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Reg. No.:						

Question Paper Code: 41188

B.E./B.Tech. DEGREE EXAMINATION, APRIL/MAY 2018
Sixth/Seventh/Eighth Semester
Mechanical Engineering
GE 6757 – TOTAL QUALITY MANAGEMENT

(Common to: Aeronautical Engineering/Automobile Engineering/
Biomedical Engineering/Civil Engineering/Computer Science and Engineering/
Electrical and Electronics Engineering/Electronics and Communication
Engineering/Electronics and Instrumentation Engineering/Environmental
Engineering/Industrial Engineering/Industrial Engineering and Management/
Instrumentation and Control Engineering/Manufacturing Engineering/Materials
Science and Engineering/Mechanical and Automation Engineering/Mechatronics
Engineering/Medical Electronics/Petrochemical Engineering/Production
Engineering/Chemical Engineering/Fashion Technology/Food Technology/
Information Technology/Petrochemical Technology/Petroleum Engineering/
Pharmaceutical Technology/Plastic Technology/Polymer Technology)
(Regulations 2013)

Time: Three Hours

PART – A

(10×2=20 Marks)

Maximum: 100 Marks

- 1. Differentiate 'Quality of Conformance' and 'Quality of Performance'.
- 2. Name any 4 methods of receiving customer complaints.
- 3. List the common barriers to team progress.
- 4. What are the objectives of supplier rating?
- 5. What is the purpose of constructing PDPC?
- 6. Define risk priority number.
- 7. Distinguish between variables and attributes.

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8.	What is house of quality?	•
9.	What is house of quality? Define quality auditing.	ار الآرا
10.	What is the need for documentation?	~ ¢
	PART – B (5×13=65 Mark	cs)
11.	a) 1/ 2 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(8) (5)
	(OR)	
	 What is quality cost? Explain the different categories and elements of COQ. How it is useful as a performance measure? (1) 	l 3)
12.	a) What is PDCA (PDSA) cycle? Illustrate PDSA cycle as an effective tool for continuous improvement with an example.	13)
	(OR)	
	11011 10 111011 4400 011111-01 001	(6) (7)
13.	a) Explain the three main types of bench marking with example. Also, discuss the various steps involved in bench marking process.	13)
	(OR)	
\$ + 7x		(7)
in stra	5617166.	(6)
l 4.	do you line about the process.	13)
	3, 6, 4, 6, 20, 2, 6, 7, 3, 0, 6, 9, 5, 6, 7, 4, 5, 7, 5 and 0.	
	(OR) Separate destinate a constant de la constant d	Ž.
	and stobs in introduction of 11 m an ersummer.	(9)
	ii) Compute the average loss in thousands for a process that produces steel shafts. The target valve is 6.40 mm and the Taguchic coefficient is 9500.	(4)

15.	a),	i) What are the requirements and benefits of TQM imp manufacturing sector?ii) Describe the four tiers of quality documentation.	lementation in (7) (6)
,		(OR)	
,	b)	Explain in detail the concept and requirements of IS 14000.	(13)
		PART – C	(1×15=15 Marks)
16.	a)	Explain the procedural steps in conducting a Failure Mode with a suitable case study.	Effect Analysis (15)
,		(OR)	
4	b)	Discuss the procedural steps in constructing a house of quality example.	y with a suitable (15)