	Reg. No. :	
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## Question Paper Code: 50659

## B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017 Sixth/Seventh/Eighth Semester

## Mechanical Engineering GE 6757 – TOTAL QUALITY MANAGEMENT

(Regulations 2013)

(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 Engineering,
Petrochemical Engineering, Production Engineering, Chemical Engineering,
Fashion Technology, Food Technology, Information Technology,
Petrochemical Technology, Petroleum Engineering, Pharmaceutical Technology,
Plastic Technology, Polymer Technology)

Time: Three Hours

Maximum: 100 Marks

Answer ALL questions.

PART – A

(10×2=20 Marks)

- 1. What is quality statement?
- 2. What are the dimensions of quality?
- 3. What are the continuous process improvement?
- 4. What is quality circle?
- 5. What do you mean by six sigma?
- 6. List the stages of FMEA.
- 7. What are the objectives of QFD?
- 8. Classify the control charts.
- 9. What is need for ISO?
- 10. What is quality audit?

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			PART – B	(5×16=80 Marks)
11. a) i	i) Why to n and give	neasure quality examples.	costs? Classify the va	rious types of quality costs
P16	ii) What are	the customer	perceptions of quality?	Explain.
		(OR)		
b) ]	Explain Der feel that the	ning's fourteen se will be usefu	principles for Quality l in today's context in s	Management. How do you service industry.
12. a) ]	Elaborate th	e Japanese 5s	as applicable to service	Biomedeal Lagragian
		(OR)		
b) ]	Discuss the	role and contrib	outions of quality counc	Environmental Engineer, lie
13. a) I	Describe the	traditional sev	en QC tools and their r	nerits and demerits.
		(OR)		
b) 1	Explain in d	etail the concep	ot of FMEA.	
14. a) I	Discuss the			
j	i) Concepts	of TPM and		(10)
danki ji	i) Differenti	ate with TQM.		(6)
		(OR)		
b) i	where X value. Co	= the actual vampany Manage ted is Rs. 400.	due of a critical dimer ement has decided that	s given by L(X) = 7500 (X-N)2, nsion and N is its Nominal the maximum loss that can sion is 35.00 mm. Find the
ii	) Explain t	he concept of si	gnal to Noise ratio.	овіти чинира змум (6
	Explain how superior qua		of TQM contributes to p	products and services of
		(OR)		
b) I	Describe the	implementatio	n of ISO 14000 require	ements and benefits.
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