No. of Printed Pages : 3

BME-007

01015		B.T	MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING) ech. (AEROSPACE ENGINEERING)								
	Term-End Examination June, 2012										
		B	ME-007 : QUALITY ENGINEERING								
	Time	: 3 ho	urs Maximum Marks	: 70							
	Note: Attempt any ten questions. All questions carry equal marks. Use of scientific non-programmable calculator is allowed.										
	1.	(a)	What is quality audit? Describe the various types of quality audit.	4							
		(b)	Discuss the effects of quality on supplier economy.	3							
	2.		uss the seven most commonly used quality in conjunction with TQM.	7							
	3.	(a)	What are the guidelines to be followed while implementing TQM ?	3							
		(b)	Write short notes on ISO 14000.	4							
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- 4. (a) Differentiate between single sampling plan4 and double sampling plan.
 - (b) Explain briefly about average outgoing 3 quality.
- 5. The following table gives the number of surface 7 imperfections on sheets of photographic film manufactured by a company. Plot the control chart for C and comment on the process.

Film No	1	2	3	4	5	6	7	8
Number of	10	15	12	9	8	7	10	12
Imperfections	10							

Film No	9	10	11	12	13	14	15
Number of Imperfections	15	13	11	12	9	7	12

- 6. (a) Compare Deming and Taguchi approaches 4 towards quality improvement.
 - (b) What are the steps that Taguchi suggests to 3 be taken in carrying out experimental studies ?
- 7. (a) What are the seven management and 3¹/₂ planning tools utilized by QFD ?
 - (b) Discuss the elements of FMECA. 31/2

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8. (a) Determine the reliability of the following system.



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(b) Explain briefly about dispersion analysis.

- **9.** (a) Discuss the general stages in the application **9** of statistical process control.
 - (b) What is availability? How it is determined? 4
- 10. (a) Explain the procedure of selection of a 4 supplier by a company.
 - (b) Discuss the importance of cost of quality.
- 11. (a) Describe the three aspects of totality of 3 management system.
 - (b) Discuss the cost of poor quality suggested 4 by Juran.
- 12. (a) Discuss the contributions of Philip Crosby 3 in TQM.
 - (b) Explain the factors behind the success of **4** Japanese industries.