No. of Printed Pages: 2

BIMEE-019

Maximum Marks: 70

## B.Tech. – VIEP – MECHANICAL ENGINEERING (BTMEVI)

## Term-End Examination December, 2015

00821

Time: 3 hours

## BIMEE-019 : TOTAL QUALITY MANAGEMENT (TQM)

Note: Attempt any five questions. All questions carry equal marks. Use of non-programmable scientific calculator is permitted.

- 1. (a) Explain the main elements of TQM. Why is customer focus so important in TQM?
  - (b) How is the documentation for ISO 9000 Quality Management System (QMS) done? Explain the documentation process, giving example.
- 2. (a) How does the consumer's perspective of quality differ from the producer's perspective? Explain with the help of suitable examples.
  - (b) How does quality of design differ from quality of conformance? Explain with the help of a suitable example.

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3.	(a)	cost and how they relate to each other.	7
	(b)	Discuss, how can a quality management programme affects productivity.	7
4.	(a)	Explain the difference between attribute control charts and variable control charts.	7
	(b)	Discuss the factors that determine how much to inspect and where to inspect.	7
5.	(a)	Define reliability. What are the two ways reliability can be expressed?	7
	(b)	How is reliability of many components attached in series / parallel related ? Explain with examples.	7
6.	(a)	What is the purpose of JIT? How did JIT evolve into a system of continuous improvement?	7
	(b)	Explain, how human factors influence quality management.	7
7.	Writ	te short notes on any four of the	
	following: $4 \times 3 \frac{1}{2} = 1$		-1 <b>4</b>
	(a)	Taguchi Method	
	(b)	Defect Study	
	(c)	Quality Circles	
	(d)	Quality Function Deployment (QFD)	
	(e)	Quality Audit	