COLLEGE OF ENGINEERING, PUNE.
(AN AUTONOMOUS INSTITUTE OF GOVT. OF MAHARASHTRA)

## **END SEMESTER EXAMINATION** (PE-461) Total Quality Management

Programme: B. TECH. (PRODUCTION)

Year: 2013-14

Semester: I

Duration: 3 hr

Max. Marks: 60

## Instructions:

- Solve any SIX questions
   Electronic non-programmable calculator is permitted.
- 3. Figures to right indicate full marks.

Q.1	a)	Explain the Juran's Trilogy and ten steps to quality improvement	7
	b)	Explain the 5'S methodology used for housekeeping under the Kaizen.	3
Q.2	a)	What is meant by employee empowerment? Explain different conditions to create empowered environment.	5
	b)	State and explain different types of Teams used in the organizations	5
Q.3	a)	Explain the four categories of the cost of quality with suitable examples.	5
	b)	Explain the concept of Pareto chart and its applications in manufacturing.	5
Q.4	a)	What is meant by continuous improvement? State different tools used for continuous improvement with example only.	5
	b)	Why the quality policy to be demonstrated to the customer? State the different quality parameters which are to be demonstrated to the customers.	5
Q.5	a)	Explain the Hoshin Policy for the organization with neat example.	5
	b)	State the principle of leadership as applicable to the TOM environment	5

- Q.6 a) Explain the WV model of continuous quality improvement.
  - b) Explain the three stages and nine steps for proactive improvement to develop 7 new products.
- Q.7 a) Explain the concept of Six Sigma and also explain different indices used in it. 5
  - b) What is meant by societal learning revolutions? Explain different factors 5 involved in it.

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