## Paper/Subject Code: 53313/3) World Class Manufacturing Doute-13/12/19 B. E. CMechanical) (Sem-VIII) (CBSGS)

(Three Hours)

**Total Marks: 80** 

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- Attempt any THREE questions from the remaining questions
- Assume suitable data wherever necessary
- Figures to the right indicate full marks.

Q.1		Write short notes on. (Any Four).	20
	a.	Theory of Constraints	
	b.	Malcolm Baldrige Award	
	c.	Kaizen and 5S	
	d.	Value Stream Mapping	
	e.	Green Manufacturing	
	f.	Poka-yok	
Q.2	a.	Indian manufacturing companies are competitive and using WCM practices, Discuss.	10
	b.	What is WCM? Discuss Gunn & Maskell models of framework of WCM.	10
Q.3	a.	Explain the Just In Time Manufacturing System in detail.	10
	b.	Explain the factors that influence customer performance of quality. Discuss in the context of an automobile manufacturing company of your choice.	10
Q.4	a.	Explain the importance of cause-and-effect diagrams in process improvement. Construct the cause-and-effect diagram for shrinkage defect in casting process.	10
	b.	Describe Motorola's concept of six sigma quality and explain the level of non-conforming product that could be expected from such process.	10
Q.5	a.	Define maintenance management. Which are its different types? Explain Total Productive Maintenance with OEE?	10
	b.	Explain how human resource management of WCM organization is different from traditional organization.	10
Q.6	i a.	Define Total Quality Management (TQM). Explain evolution of TQM, and framework for TQM for continuous process improvement.	10
	b.	Explain Integration Imperative of WCM with SCM.	10

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