Time: 3 hour   **Max. Marks: 80**
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Note-
1. **Question one is compulsory.**
2. **Solve any three out of remaining five.**

Q.1		**Explain any four of the following.**	20
	a	Definition TQM and explain TQM concept	
	b	Seven QC tools and short explanation	
	c	Supplier selection	
	d	Bench Marking	
	e	Explain Win –Win policy with supplier.	
Q.2	**a**	OC Curve for n=80, c=2, AQL=1%, LTPD=5%, α =0, 0466, β =0, 2306, and Probability of Acceptance =(1-α)=0,9534. Draw OC Curve	10
	b	Describe Business Process Re-Engineering in connection with TQM.	10
Q.3	**a**	Explain PDCA Cycle with examples	10
	b	Explain various steps in implementing quality management system.	10
Q.4	**a**	What is six sigma? Explain six sigma approach DMAIC.	10
	b	Describe the contribution of Juran and Crosby to quality management.	10
Q.5	**a**	Explain the purpose of giving Malcom Baldridge quality award.	10
	b	Explain the following charts	10
		(i) X-bar – R chart	
		(ii) P-chart	
		(iii) C-chart	
Q.6	**a**	1.Explain the Barriers of TQM'	5
		2.Write note on cost of quality	5
	b	What is Bench Marking concept? List out the process involves in the Bench Marking concept implementation	10

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