Max. Marks: 80 Time: 3 hour

- T	
N	$\Delta t \Delta_{-}$
1.4	<b></b>

-	<b>^</b>		,	(\
1.	Question	one is	compu	sory.

Question one is compulsory.
 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\%, $\alpha$ =0, 0466, $\beta$ =0, 2306,	10
		and Probability of Acceptance = $(1-\alpha)$ =0,9534. Draw OC Curve	
		Sharper Sharpe	
	b	Describe Business Process Re-Engineering in connection with TQM.	10
Q.3	a	Explain PDCA Cycle with examples	10
7,7	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
2	_ ^	Final sing the assume as of sixting Walcom Delikidas and literatural	10
Q.5	a	Explain the purpose of giving Malcom Baldridge quality award.	10
	D	Explain the following charts	10
~	7	(i) X-bar – R chart	
		(ii) P-chart	
		(iii) C-chart	
06	200	1 Evaluin the Derriors of TOM'	_
<b>Q.6</b>	a	1.Explain the Barriers of TQM'	5
		2. Write note on cost of quality	5
	Ç D	What is Bench Marking concept? List out the process involves in the	10
		Bench Marking concept implementation	
		· · · · · · · · · · · · · · · · · · ·	

Time:	(3 H	ours) Total Marks: 8	80
N 1 2 3	. Att	estion No. 1 is compulsory. empt any THREE out of the remaining FIVE questions. sume suitable data if necessary.	
Q. 1.		Answer any FOUR of the following:	(20)
Q. 1.	(a)	Discuss on : pillars of Environmental Management.	(20)
	(b)	Elaborate the ISO 14001 EMS Model for Municipalities.	
	(c) (d)	Unawareness or ignorance of environmental protection will lead to detrimental consequence comment. Justify the statement.  Define Environmental Objective as per ISO 14001	
	(e)	Explain the various keys components of EMS.	
Q. 2.	(a)	Write notes on the following: a) Applications of Environmental Management System. b) ISO 14001& ISO 14010	(10)
	(b)	What are the challenges of Environmental Management?	(10)
Q. 3.	(a)	How is CSR related to Environmental Management? Explain with an example.	(10)
	(b)	What are the guidelines to conduct and Environmental audit?	(10)
Q. 4.	(a)	What is Total Quality Environment Management Concept?	(10)
	(b)	Discuss on factors destroying the Environment with example.	(10)
Q. 5.	(a)	Write short note on Loss of Biodiversity as related to global environmental concerns.	(10)
	(b)	Discuss the key success factors for applied to almost all the operation for EMS implementation.	(10)
Q. 6.		Answer the following:-	(20)
	(a)	Discuss on 5 biggest environmental problems of year 2023.	
	(b)	Explain limiting factors and carrying capacity as related to Ecosystems.	
	(c)	How does EMS help in improving environment quality?	
7,616	(d)	Discuss on Environmental Issues related to Indian Context.	

43299