

				Su	bjec	et Co	ode:	MT	ME	2042
Roll No:										

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MTECH (SEM II) THEORY EXAMINATION 2023-24 TOTAL QUALITY MANAGEMENT

TIME: 3 HRS M.MARKS: 70

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

•	Atten	ttempt all questions in brief.						
	a.	Explain Quality characteristics.						
	b.							
	c. Explain capacity verification of probable vendor.							
	d.							
	e.	Define Benchmarking.						
	f. Define maintainability.							
	g. Explain QS 9000.							

SECTION B

2.	Atte	empt any three of the following:	$7 \times 3 = 21$
	a.	Discuss procurement procedure of bought out items in details.	
	b.	Discuss Quality cost and analyze it in detail.	
	c.	What is control chart? Evaluate the method of drawing R chart with	example.
	d.	Explain the process of defect diagnosis and its prevention in detail.	KV
	e.	Explain different elements of ISO quality system and give its benefit	ts in quality
		management.	

SECTION C

3.	Attel	mpt any one part of the following:	/ X I = /
	(a)	Explain the evolution of quality concept from craftsmanship to	TQM.
	(b)	"Quality promotes sale", justify the statement.	
4.	Atte	mpt any <i>one</i> part of the following:	$7 \times 1 = 7$
	(a)	Examine the concept of 5-S in detail with suitable examples.	
	(b)	What do you understand from 'continuous process improvement	nt'? Illustrate P-
		D-C-E cycle for continuous process improvement.	
5.	Atte	mpt any <i>one</i> part of the following:	$7 \times 1 = 7$
	(a)	Name all the QC or SPC tools. Explain any two QC or SPC tool	ls.
	(b)	Differentiate between control charts for variable quality cha	racteristics and
		attribute quality characteristics. Also explain central tendency	& control limits
		with suitable examples.	

6. Attempt any one part of the following:

(a) What is FMEA? Explain the stages of FMEA.

(b) Explain the term 'Reliability' and factors affecting it. Also formulate the

procedure of evaluation of the reliability.

7. Attempt any *one* part of the following:

7 x 1 = 7

` ′	Justify in o sector.	detail, the	implementation	of TQM	in manufacturing	and service
(b)	Discuss abo	out ISO 90	00:2000 Quality	Systems		