Total No. of Questions: 6

Total No. of Printed Pages:3

Enrollment No.....



## Faculty of Engineering End Sem (Odd) Examination Dec-2022 ME3EI07 TQM & SQC

Programme: B.Tech. Branch/Specialisation: ME

Duration: 3 Hrs. Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

Q.1 (N	(ICQs)	should be written in full instead	nd of only a, b, c	e or d.	
Q.1	i.	In a process, the transformati aspects?	on involves crea	ation of value in which	h 1
		(a) Time (b) Space	(c) Form	(d) All of these	
	ii.	Which of the following is no	t a target of TQ	M?	1
		(a) Customer satisfaction			
		(b) Reducing manpower			
		(c) Continuous cost reduction	n		
		(d) Continuous operational in	mprovement		
	iii.	According to Deming, qualit	y problems are	due to-	1
		(a) Due of management	(b) Due to met	thod	
		(c) Due of machine	(d) Due to mat	terial	
	iv.	TQM focuses on-			1
		(a) Employee	(b) Customer		
		(c) Both (a) and (b)	(d) None of th	ese	
	v.	Control chart is a-			1
		(a) Process monitoring tool	(b) Process co	ntrol tool	
		(c) Both (a) and (b)	(d) None of th	ese	
	vi.	Which of the following is a	control chart for	r attributes?	1
		(a) p Chart	(b) np Chart		
		(c) c Chart	(d) All of these	e	
	vii.	Which of the following is NO	OT a quality im	provement tool?	1
		(a) 5S-diagram	(b) Pareto char	rt	
		(c) Ishikawa diagram	(d) Scatter dia	gram	
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P.T.O.

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Q.6

	[6]	
	Attempt any two:	
i.	Explain acceptance sampling. Discuss its various types.	
ii.	Define quality circle. Discuss the steps for establishing the quality circle.	,
iii.	Define quality audit. Discuss different types of quality audits.	
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## MARKING SCHEME

Faculty of Engineering
End Sem (Odd) Examination Dec-2019
ME3EI06 TQM & SQC
Programme: B.Tech.
Branch/Specialisation: ME

Duration: 3 Hrs.

Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

Q.1	i.	(d) All of the above	1
	ii.	(a) Loss curve (b) reducing manfourer	1
	iii.	(c) Due to management	1
	iv.	(b) Customer	1
	V.	(c) Both (a) and (b)	1
	vi.	(d) All of the above	1
	vii.	(a) 5S-diagram	1
	viii.	(b) Fishbone diagram	1
	ix.	(a) Customer satisfaction	1
	х.	(b) ISO-14000	1
Q.2	i.	Process definition (1marks), each variation (2 marks)	5
	ii.	Goal post view of quality (2 marks), Kaizen view of quality (3 marks)	5
OR	iii.	Quality of design (3 marks), quality of conformance (1 marks) and quality of performance (1 marks)	5
Q.3	i.	Principles (2 marks), benefits (3 marks)	5
	ii.	Deming's 14-point philosophy (5 marks)	5
OR	iii.	Paradigms (3 marks), components (2 marks)	5

Q.4	i.	Funnel marble experiment (1 mark), 4 rules (4 marks)	5
	ii.	First 4 rules (2 marks), last 3 rules (3 marks)	5
OR	iii.	Attributes control charts (3 marks), variables control chart (2 marks)	5
Q.5	i.	Ishikawa diagram explanation (2 marks), steps of construction (3 marks)	5
	ii.	Definition of Benchmarking (1 marks), various types (4 marks)	5
OR	iii.	Concept of house of quality (2 marks), steps (3 marks)	5
Q.6		Attempt any two:	_
	i.	Acceptance sampling (2 marks), types (3 marks)	5
	ii.	Definition of Quality Circle (2 marks), steps (3 marks)	5
	iii.	Definition of quality audit (1 marks), types (4 marks)	5

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