USN	1000					,	BME613A
UDIN	The state of the s						A Committee of the Comm

## Sixth Semester B.E./B.Tech. Degree Examination, June/July 2025 **Total Quality Management**

Time: 3 hrs.

Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module. 2. M: Marks, L: Bloom's level, C: Course outcomes.

		Module - 1	M	L	C
Q.1	a.	Define TQM. Explain the basic approach and benefits of TQM with examples.	10	L1 L2	CO1
	b.	Discuss the contribution of TQM gurus in the development of total quality management.	10	L2	CO1
		OR			
Q.2	a.	Explain the TQM Framework and obstacles faced during its implementation.	10	L3	CO1
	b.	Describe the ISO 9000series of standards. How do ISO 9001 requirements help organizations?	10	L5	CO1
		Module – 2			
Q.3	a.	What are characteristics of quality leaders? Explain leadership concepts and the importance of ethics.	10	L1	CO2
	b.	Illustrate the Deming philosophy and its significance in TQM leadership.	10	L4	CO2
		OR			
Q.4	a.	Discuss the role of TQM leaders in strategic planning and communication with examples.	10	L3	CO2
	b.	Explain how core values and decision-making affect leadership in a quality-oriented organization.	10	L5	CO2
		Module – 3			
Q.5	a.	Define customer satisfaction. How does service quality and customer perception impact it?	10	L1	CO3
	b.	Discuss customer complaints and retention strategies in maintaining quality.	10	L4	CO3
		OR			
Q.6	a.	Explain employee involvement through motivation, empowerment and performance appraisal.	10	L5	CO3
	b.	Describe the importance of recognition, rewards and union participation in TQM.	10	L2	CO3
		1 of 2			

			F	BME	613A
		Module – 4			
Q.7	a.	Explain the Juran Trilogy and how it supports continuous improvement in	10	L2	CO <sup>2</sup>
		quality.			
	b.	What is the PDSA cycle? Describe with a suitable example.	10	L1	CO
		What is the 12511 eyelet 26561.66 White summer of the pro-		L2	
-					
0.0		OR	4.0	T.0	
Q.8	a.	Write a detailed note on statistical process control tools used in quality management.	10	L2	CO
		management.			
	b.	Discuss the concept of six sigma and its role in improving process	10	L1	CO
		efficiency.		L5	
0.0		Module – 5	10	Y 1	00
Q.9	a.	Define TPM. Explain the different types of maintenance and the steps in implementing TPM.	10	L1	CO
		implementing 11 ivi.			
	b.	Describe the five pillar of TPM and the role of jishu Hozen in quality	10	L2	CO
		improvements.			le .
		OB			
Q.19	a.	OR Explain the concept of Quality by Design (QbD) and its key components in	10	L3	CC
A.10	a.	the pharmaceutical industry.	10	LIS	
	b.	What is an Environmental Management System [EMS]? Discuss its	10	L5	CC
		benefits and challenges.			
		2 of 2			