

PRN No.	
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PAPER CODE	U225-2115 (EST)
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(AY:2024-25) May 2025 (ENDSEM) EXAM
SY (SEMESTER - II)

**COURSE NAME: QUALITY
STANDARDS IN
PRACTICE**

**Branch: MECH/CIVIL/ENTC/
CE(AIML)/ CE(DS)/CE(AI)**

COURSE CODE: MDM20235

SY (Pattern 2023)

Time: [1Hr 30 Min]

[Max. Marks: 40]

(*) Instructions to candidates:

- 1) **Figures to the right indicate full marks. Use of scientific calculator is allowed**
- 2) **Use suitable data wherever required**
- 3) **All questions are compulsory. Solve any two sub question each from Questions 1 , 2 ,3 and 4**

Q. No.	Question Description	Max. Marks	CO mapped	BT Level
Q.1	a) Using a real-world example, Discuss the implementation of a specific standard (e.g., ISO 9001 or ISO 14001) has led to measurable innovation or improvement in an organization.	[5]	1	2
	b) Demonstrate how the standardization process would be implemented for new technology (e.g., wearable health devices), detailing each step from need identification to publication.	[5]	1	2
	c) Apply your understanding of National Standards Bodies Explain a specific NSB (e.g., ANSI or BIS) contributes to a particular industry sector.	[5]	1	2
Q2	a) Demonstrate how a corrective action plan would be developed and implemented following the detection of a defect in a production line. Use a specific example	[5]	2	2
	b) Explain how inspection and testing support the quality control process in manufacturing. Provide examples to illustrate their use.	[5]	2	2
	c) Summarize the key differences between Six Sigma and ISO 9000 with regard to their approaches to quality management.	[5]	2	2
Q3	a) Explain the role of Conformity Assessment Bodies (CABs) in certifying an organization's compliance with ISO 9001.	[5]	3	2

	<p>b) Explain the core principles of Total Quality Management (TQM) and its impact on quality improvement within organizations.</p> <p>c) Describe the significance of internal and external audits in the ISO 9000 series and how they contribute to maintaining quality standards.</p>	<p>[5]</p> <p>[5]</p>	<p>3</p> <p>3</p>	<p>2</p> <p>2</p>
Q4	<p>a) Explain the importance of hazard analysis and critical control points (HACCP) in ISO 22000 and its role in preventing food safety hazards.</p> <p>b) Explain the relationship between corporate social responsibility (CSR) and international standards on social responsibility, such as ISO 26000.</p> <p>c) How does ISO 14001, a part of ISO 14000, assist organizations in developing an environmental management system (EMS), and what are its key elements?</p>	<p>[5]</p> <p>[5]</p> <p>[5]</p>	<p>4</p> <p>4</p> <p>4</p>	<p>2</p> <p>2</p> <p>2</p>