## **GUJARAT TECHNOLOGICAL UNIVERSITY** ME – SEMESTER-1 (NEW) EXAMINATION – WINTER 2016

## Subject Code: 2711407Date:06/01/2017Subject Name: Quality Control & Safety Mgmt in Construction ManagementTime: 2:30 pm to 5:00 pmTotal Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

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Q.1	(a)	Describe the need of quality control and safety management in construction engineering. Support your answer with suitable example.	07
	(b)	Discuss the roles and responsibilities of site safety engineer and contractor for effective safety management at construction work.	07
Q.2	(a)	Justify the statement "Direct and Indirect cost of the construction is affected by safety management" with appropriate reasoning.	07
	<b>(b)</b>	Explain the evolution chart of Quality management with suitable example. OR	07
	( <b>b</b> )	<ul><li>Write short note on :</li><li>(1) OSHA (2) Measuring the performance of customer satisfaction</li></ul>	07
Q.3	(a)	Discuss step by step strategic quality planning for construction management with appropriate illustration.	07
	(b)	Describe the association between strategic planning and total quality management with suitable example of construction engineering.	07
Q.3	(a)	Enlist and explore various probable causes of accident at construction site. Also mention the remedies to avoid such accidents at construction work.	07
	<b>(b</b> )	Discuss the terms Risk assessment, Risk Control, Risk Management with appropriate illustration.	07
Q.4	(a)	Write short notes on : (1) Workman compensation act (2) Quality statements with examples	07
	<b>(b)</b>	Differentiate between : (1) Quality control and Quality inspection (2) Manifest and Latent Motives	07
Q.4	(a)	Write the comparative view of safety management for commercial Building and Industrial Building with appropriate justification.	07
	<b>(b)</b>	Discuss the Taguchi's concept of quality. Also explain its implementation for construction management	07
		OR	
05	(n)	Write short notes on :	07
Q.5	<b>(a)</b>		07
	(b)	(1) Project co-ordination and safety procedure (2) FMECA Describe various motivational Conflicts in construction industry with suitable examples	07
		OR	
Q.5	<b>(a)</b>	Discuss the role of selection of new materials and influence of drawings for quality assurance and quality control.	07
	(b)	Prepare an occupational and safety hazard assessment chart with applicable check points for the construction site of bridge. Assume suitable hypothetical data .	07

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