GUJARAT TECHNOLOGICAL UNIVERSITY

GUJARAT TECHNOLOGICAL UNIVERSITY			
ME – SEMESTER –II-(New)-EXAMINATION – SUMMER-2019			
Subject Code: 3721415 Date: 30/05/2019			
Subject Name: Quality & Safety Management in Construction			
Time: 02:30 PM TO 05:00 PMTotal Marks: 70			
Instructions:			
 Attempt all questions. Make suitable assumptions wherever necessary. 			
		Figures to the right indicate full marks.	
	5.	rightes to the right indicate run marks.	
Q.1	(a)	Explain the importance of quality management in construction. Explain the different objectives of quality management.	07
	(b)	Define the term accident. Explain the reasons for accidents on construction sites.	07
Q.2	(a)	Explain the Taguchi's concept of quality.	07
	(b)	Give difference between quality control and Quality inspection.	07
		OR	
	(b)	Write short note on: total quality management in construction.	07
Q.3	(a)	Write short note on Quality System Standards	07
	(b)	Write Application of Six Sigma tool to RCC work in building.	07
		OR OR	
Q.3	(a)	Explain (1) Histogram (2) Fishbone diagram	07
	(b)	How the economy and project duration can affect the quality management.	07
Q.4	(a)	Discuss about OSHA. Write its benefit to construction industry.	07
•	(b)	Explain the responsibilities and authorities of contractors and consultants in quality	07
		assurances and quality control.	
OR			
Q.4	(a)	Write effectiveness of safety programme in construction industry.	07
	(b)	Explain the effect of direct cost and indirect cost in safety management.	07
Q.5	(a)	Explain the safety in construction operations on various construction sites.	07
	(b)	Write short note on health and environment management system.	07
~ -		OR	~-
Q.5	(a)	Enlist the types of accident occur on bridge site. Also write various Safety requirements for bridge site.	07
	(b)	Write Duties and Responsibilities of Site Engineer and Supervisor in safety	07
		management.	