GUJARAT TECHNOLOGICAL UNIVERSITY ME - SEMESTER-I(New course)• EXAMINATION – WINTER- 2015

Subject Code: 2711407

Date: 04/01/2016

Subject Name: Quality Control & Safety Management in ConstructionTime: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.
- Q.1 (a) "Safety is an essential component for various construction activities "Justify the 07 statement with suitable example.
 - (b) Define Quality control in construction industry. Also enlist various objectives and 07 benefits of quality control in construction industry.
- Q.2 (a) Explain the various criteria of supplier selection and supplier performance 07 evaluation for construction project.
 - (b) Discuss the terms Quality Planning and Strategic planning with appropriate 07 illustrations.

OR

- (b) Describe the perceptions of safety from middle and top level management level. 07
- Q.3 (a) Draft proposed safety policies for construction project of Flyover bridge 07 constriction with all necessary considerations
 - (b) Write Short notes on :
 - (1) Consumer satisfaction
 - (2) FMEA technique

OR

- Q.3 (a) How do you see the roles of contractors and employee at construction site for 07 safety management?
 - (b) Discuss about quality perspective and quality tribology with suitable example. 07
- Q.4 (a) How do you see safety management for high rise construction, Heavy structures? 07
 - (b) Differentiate between Quality control and Quality inspection with appropriate **07** example.

OR

- Q.4 (a) Explain safety requirement for Scaffolding and formwork with suitable example. 07
 - (b) Discuss the importance of safety records and quality statements for construction 07 projects
- Q.5 (a) Describe the terms Job site safety assessment and Safety audit for construction projects.
 - (b) Write Short notes on :
 - (1) Types of industrial hazards
 - (2) Taguchi's concept of quality

OR

- Q.5 (a) Discuss on various aspects of quality appraisal and factors influencing construction 07 quality.
 - (b) Write Short notes on :
 - (2) Ergonomics in construction industry.
 - (3) Workman Compensation Act

07

07