

Total No. of Questions : 10]

SEAT No. :

**P3292**

[Total No. of Pages : 2

**[5461]-511**

**B.E. (Civil)**

**TQM & MIS IN CIVIL ENGINEERING (401005 C)  
(2015 Pattern) (Semester - I) (End sem.) (Elective - II)**

*Time : 2 ½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates :*

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicates full marks.*

- Q1)** a) What are the various barriers affecting on the implementation of TQM in construction sector? [4]  
b) Explain the contribution of any two QM Gurus highlight their views regarding Quality? [6]

OR

- Q2)** a) 'Workman ship is important parameter of quality work', comment. [4]  
b) List out any four quality control tools and explain any two in detail. [6]

- Q3)** a) Write a note on Six Sigma in construction with respect to its advantages and limitations. [5]  
b) What are the contents of quality manual? Describe its structure. [5]

OR

- Q4)** a) Enlist the principle of ISO 9001 and Explain any two? [5]  
b) What is Six Sigma? Explain their certification levels. [5]

- Q5)** a) How the benchmarking is important role in TQM? [6]  
b) Describe the main features and process of Quality Circle. [6]  
c) Explain the flow of cost of quality. How it will be affect any construction project? [6]

OR

- Q6)** a) Explain with Example CONQAS. [6]  
b) What do you mean by Quality Circle? List out its benefits. [6]  
c) Write a note on CIDC-CQRA Certification? [6]

**P.T.O.**

- Q7)** a) Explain with Example 5 S techniques? [6]  
b) What are the four elements of Zero defects explain with a suitable example. [6]  
c) Explain the role of awards in TQM. [4]

OR

**Q8)** Write a note on (Any four) [16]

- a) FEMA.
- b) Jamuna lal bajaj award
- c) Zero defect
- d) Rajiv Gandhi National Quality Award
- e) Malcolm Baldrige National Quality Awards

- Q9)** a) Elaborate DSS with example and write their Advantages. [6]  
b) Write a note on operation support system. [5]  
c) What is meant by MIS? List out its objectives. [5]

OR

- Q10)** a) Explain advantages and limitations of MIS in implementation on construction site. [6]  
b) Construction activities will effectively managed by using MIS, Justify. [5]  
c) Differentiate between data and Information. [5]

