

Total No. of Questions : 10]

SEAT No. :

P3339

[Total No. of Pages : 2

[5254]-511

B.E. (Civil)

TQM & MIS IN CIVIL ENGINEERING
(2012 Pattern) (Semester - I) (Elective - II)

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q9 or Q10.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right side indicate full marks.
- 4) Assume Suitable data if necessary.

- Q1)** a) Give any two definitions of 'Quality'. [4]
b) List any two reasons of poor quality in RCC work and give measures to overcome them. [6]

OR

- Q2)** a) What is the definition of MIS? What are its uses in construction field?[4]
b) What are the decision support systems required by Project Manager in a construction firm? [6]

- Q3)** a) Write a short note on DSS. [4]
b) Differentiate between DMAIC and DMADV and share their applications. [6]

OR

- Q4)** a) Give two practical examples of design defects. [4]
b) Give all six sigma levels. Give your view on the sigma levels that can be achieved on construction site by giving reasons. [6]

- Q5)** a) Describe 'Nonconformity' for concreting of slabs and beams. [6]
b) Prepare checklist for formwork of column. [6]
c) Differentiate between preventive and corrective actions by giving suitable examples on site. [6]

OR

P.T.O.

- Q6)** a) Differentiate between Quality Assurance and Quality Control. [5]
b) Describe Quality policy and quality objectives. [5]
c) Write short notes on any two of the following [8]
i) Document control
ii) Record Management
iii) Internal audit
- Q7)** a) What is meant by Supply chain Management? Give the supply chain for cement received at the site. [8]
b) What is the 'Cost of Quality'? How can it be calculated? Explain with the help of suitable example. [8]
- OR
- Q8)** a) What are the different modules that are used in ERP software developed for a construction site? Highlight the contents of each. [8]
b) What is 'Benchmarking in TQM'? Also, describe process benchmarking by giving suitable example. [8]
- Q9)** a) Elaborate the use of modern tools for documentation of construction projects. [8]
b) What is meant by Enterprise Resource Planning system? What are its application areas in construction field? [8]
- OR
- Q10)** a) What is database management system? What are its advantages? [8]
b) Explain the use of GIS for monitoring of construction projects. [8]

