

Total No. of Questions : 10]

SEAT No. :

P3865

[5561]-511

[Total No. of Pages : 2

B.E. (Civil)

**TQM AND MIS IN CIVIL ENGINEERING
(2015 Course) (Semester-I) (Elective-II)**

Time : 2½ Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) Answer any one from questions 1 or 2, 3 or 4, 5 or 6, 7 or 8, 9 or 10.
- 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) Explain any two definitions of quality with example. **[6]**

b) What are the various barriers in implementation of TQM in construction industry? **[6]**

OR

Q2) a) What are benefits of applying TQM on construction site. **[6]**

b) Explain DMAIC & DMADV in brief. **[6]**

Q3) a) What are the types of construction defect? Explain any two with examples. **[6]**

b) Explain the historical evolution of TQM. **[6]**

OR

Q4) a) Enlist the principles of ISO 9001 and explain any two. **[6]**

b) Prepare a checklist for RCC work for column. **[6]**

P.T.O.

- Q5)** a) What are the contents of quality manual? Describe in brief. [8]
b) Write a short note on: Conformity & Non-Conformity. [6]

OR

- Q6)** a) Explain CONQAS with suitable example. [8]
b) Explain 5s campaign of KAIZEN. [6]

- Q7)** a) Explain CIDC-CQRA certifications. [8]
b) Explain in brief Benchmarking in TQM? Explain the benefits & limitations of the same. [8]

OR

- Q8)** a) Explain in brief "Failure Mode Effect Analysis (FMEA)". [8]
b) Differentiate data & Information with suitable example. [8]

- Q9)** a) Define MIS? Explain benefits and limitations of MIS. [8]
b) Explain in brief Deming Prize & Malcolm Baldrige award. [8]

OR

- Q10)** a) Explain subsystems of MIS in brief. [8]
b) Explain zero defects with suitable example. [8]

