

Total No. of Questions :6]

SEAT No. :

**P195**

**Oct./BE/Insem. - 511**

[Total No. of Pages : 1

**B. E. (Civil)**

**TQM & MIS IN CIVIL ENGINEERING**

**(2015 Course) (Semester - I) (401005 C) (Elective - II)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) Answer Q1. or Q.2, Q.3 or Q.4, Q.5 or Q.6.
- 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) Discuss the importance of quality on a project in the context of global challenges. [5]

b) Explain various affecting quality of construction. [5]

OR

**Q2)** a) Explain the contribution of Quality Guru Juran and Ishikawa. [6]

b) Differentiate Between TQM and TQC. [4]

**Q3)** a) Enlist seven quality control tools. Explain any two with suitable example. [5]

b) Discuss in detail defects in concreting. [5]

OR

**Q4)** a) Define the term Six Sigma. Explain the importance of Six Sigma in construction sector. [5]

b) Discuss the necessity & importance of QFD. [5]

**Q5)** a) What do you mean by quality Manual? Explain its importance in construction organization. [6]

b) Explain the following : [4]

i) Corrective action

ii) Preventative action

OR

**Q6)** a) Enlist the principle of ISO 9001 and Explain any two? [5]

b) Prepare a checklist for form work activity. [5]

