

Total No. of Questions : 10]

**P6545**

SEAT No. :

[Total No. of Pages : 2

**[6181]-94**

**B.E. (Civil Engineering)**

**TQM AND MIS**

**(2019 Pattern) (Semester - VIII) (401014A) (Elective - VI)**

*Time : 2½ Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8. & Q.9 or Q.10.
- 2) Neat diagrams should be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

- Q1)** a) Explain in details any two definitions of quality with example. [6]  
b) Explain in details various barriers in implementation of TQM in construction industry? [6]

OR

- Q2)** a) Explain in details benefits of applying TQM on construction site. [6]  
b) Explain in details six sigma? Explain it's important in construction sector. [6]
- Q3)** a) Explain any 4 common construction defects with remedies. [6]  
b) Explain the historical evolution of TQM. [6]

OR

- Q4)** a) Explain in details principles of ISO 9001 and explain any two. [6]  
b) Explain in details a checklist for form work activity at various stages of work. [6]
- Q5)** a) Explain in details contents of quality manual? Describe in brief. [8]  
b) Explain in details on: Conformity & Non-Conformity. [6]

OR

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

- Q7)** a) Explain in brief cost of Quality with case study. [8]  
b) Explain in details Quality circle? Explain the benefits & limitations of the same. [8]

OR

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

- Q9)** a) Explain in details MIS? Explain benefits and limitations of MIS. [8]  
b) Explain in details any two International quality awards. [8]

OR

- Q10)** a) Explain advantages and limitations of MIS in implementation on construction site. [8]  
b) Construction activities will effectively managed by using MIS, explain in details. [8]

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