Total No	o. of Questions : 10]	SEAT No. :		
P2959	[5154]-511	[Total No. of Pages : 2		
	B.E. (Civil)	EDDIC		
(0.04.0	TQM & MIS IN CIVIL ENGINE		• • • • • • • • • • • • • • • • • • • •	
(2012	Course) (401005 C) (Semester - I) (Electiv	ve - II) (End	i Semester)	)
Time: 2	½ Hours]	[Max. Marks : 70		
Instructi	ions to the candidates:			
1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6, Q7 or Q8, Q	9 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.			
<b>Q1)</b> a)	What are the factors affecting the poor qualit	y of constru	ction? [4	4]
b)	What is PDCA cycle? Explain the application achievement of structural designing of a build	•	cle for qualit	•
	OR			
<b>Q2)</b> a)	Define data and information. What are the r them? Explain with the help of suitable examp	•	ences betwee	
b)	Give measures to overcome the causes response	onsible for p	oor quality o	of

**Q3)** a) What are the benefits of applying TQM on construction site? [4]

construction.

b) State the definition of Six Sigma. Explain DMAIC and DMADV. What are the differences between the two? [6]

OR

- **Q4)** a) What are the obstacles in implementing TQM on construction sites? [4]
  - b) What are the types of defects? Give two practical examples for each type of defect. [6]
- **Q5)** a) What are the contents of Quality Manual? Describe its structure. [6]
  - b) Prepare checklist of reinforcement activity at design and concreting stage. [6]
  - c) What are the advantages and limitations of implementation of ISO on construction sites? [6]

<i>Q6)</i>	a)	Differentiate between Quality Assurance and Quality Control. [5]	
	b)	What are the eight Quality Management Principles adopted by ISO 9001? [8]	
	c)	Write short notes on any two of the following: [5]	
		i) Management Responsibility.	
		ii) Quality Management System.	
		iii) Product Realization.	
Q7)	a)	Write a detailed note on 'Strategic Planning'. [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 do you mean by Supply Chain Management? What are the objectives of SCM? [8]	
	b)	Explain in detail 'Kaizen' system in TQM. [8]	
Q9)	a)	What data and information is required for planning of new road corrid between two megacities?	
	b)	What is meant by Enterprise Resource Planning system? What are its application areas in construction field? [8]	
		OR	
Q10	<b>)</b> a)	What is database management system? What are the advantages of DBMS? [8]	
	b)	Write a detailed note on application of mobile technology in construction industry. [8]	

2