

Total N	o. of Q	uestions	: 1	2
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P3034

SEAT No.:			
[Total	No	of Pages	. 2

## B.E. (CIVIL) (Semester - I) TQM AND MIS IN CIVIL ENGINEERING (2008 Pattern) (Elective - II)

Time: 3 Hours]

[Max. Marks: 100

Instructions to the candidates:

- 1) Answer to the two sections should be written in separate answer books.
- 2) Answer Q1 or Q2,Q3 or Q4, Q5 or Q6 from Section I, and Q7 or Q8, Q9 or Q.10, Q11 or Q12 from section II
- 3) Neat diagrams must be drawn wherever necessary.
- 4) Figures to the right side indicate full marks.
- 5) Use of logarithmic tables slide rule. Mollier charts, electronic pocket calculator and steam tables is allowed.
- Assume Suitable data if necessary.

## SECTION - I

- Q1) a) Explain with example the definition of quality given by Juran, Deming Crosby, applicable in the context of civil construction. In your opinion, are these definitions implemented on project sites? Elaborate [10]
  - b) Explain in brief any 4 important parameters arising as a result of the multinational construction companies entering the Indian Construction market, which have forced project managers to be quality oriented. [8]

OR

- Q2) Explain in brief 9 parameters which affect the attainment of quality of a bituminous pavement road construction [18]
- Q3) a) Enumerate 16 parameters which are to be checked for achieving the quality of formwork used for RCC slab construction [8]
  - Explain in brief any 4, ISO 9001: 2000 Quality Management System standards requirements with examples from a construction organization.

OR

Q4)	a)		Example 16 parameters which are to be checked for achieving the, quality of concreting done for RCC column [8]		
	b)	Diff	Differentiate with example, between		
		i)	Quality and TQC.		
		ii)	QC and QA		
		iii)	Conformity and NC		
	iv) Quality Management as against management of quality.				
Q5)					ects and suggest a preventive strategy or quality with examples. [10+6]
				OR	
Q6)	Exp	lain i	n detail		[16]
		a)	TQM	b)	Six Sigma
		c)	Kaizen	d)	SCM
			SEC	TION	<u>- II</u>
Q7)			at is MIS? Explain any 4 decision support systems which along with an are very useful in managing construction projects. [16]		
				OR	
Q8)	ne	ith a flow diagram explain in detail how various types of data and information ed to be encoded and decoded in order to obtain a complete database, hile preparing an MIS.  [16]			

Q9)	You are the CEO of an infrastructure company dealing with mega projects being executed on a PPP scheme. Elaborate on:- [16]				
		Operational control			
		ii)	Management Control		
		iii)	Strategic planning		
	Which will enable you to keep a track of all projects being executed in various parts of the country.				
			OR		
Q10)	exp	ort b	the IT head of an MNC dealing with construction materials important the state of th		
		i)	Strategic Control		
		ii)	Operational Control		
		iii)	Management Control		
Q11,	Exp	olain	in detail [3	18]	
	a)	Info	ormation Systems Technology		
	b)	Cor	mmunications Technology		
	c)	Dat	ta Processing Softwares		
OR					
Q12	) Ex	plain	in detail [	18]	
	a)	Ha	rdware backup support for intelligent transport system		
	b)	GIS	S and ERP		
	c)	Inf	formation based support system.		