Total No	o. of Questions :6]	SEAT No.:		
P38		[Total No. of Pages :2		
Oct./ TE/ Insem 152				
T.E. (Civil)				
INFRASTRUCTURE ENGINEERING &				
CONSTRUCTION TECHNIQUES				
(2015 Course) (Semester - I) (301002)				
	(2010 COMPSC) (Semiciscol 1) (201002)		
Time: 1	! Hour]	[Max. Marks:30		
Instructi	ions to the candidates:	· Co ·		
1)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6.	3		
2)	Figures to the right indicate full marks.			
3)	Assume suitable data, if necessary.	X TO		
4)	Use of electronic pocket calculator is allowed in	the examination.		
5)	Use of cell phone is prohibited in the examination	ı hall.		
Q1) a)	Explain in brief advantages and disadvantag	ges of concrete sleepers. [5]		
b)	Explain salient features of smart city.	[5]		
,	OR	-9-		
Q2) a)	Explain coning of wheels and its importar	nce with the help of a neat?		
	sketch.	(5)		
b)	Write a short note on metro rails.	[5]		
,	Silving Silving	9 . 16.		

Q3) a) **[6]**

Discuss in brief different methods to reduce the wearing of rails.

Define the following
Equilibrium speed;
Equilibrium cant;
Cant excess;
Cant deficiency.

OR b)

[4]

Q4) a)	Enlist with a neat sketch all elements of a crossing.	[6]
b)	Explain any 4 types of curves.	[4]
Q 5) a)	List out various dredging systems. Explain any 1 with a neat ske	etch.[5]
b)	Enlist types of barges explain any two. OR	[5]
Q6) a)	What are the various methods of dewatering systems? Explain a method with a neat sketch.	ny one [5]
b)	What is a diaphragm wall? State its purposes.	[5]
	Paris of the state	X Statistics

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