P5054

SEAT No.:	
[Total	No. of Pages : 2

P.T.O.

T.E./Insem.-602

T.E. (Civil) (Semester - I) INFRASTRUCTURE ENGINEERING & CONSTRUCTION TECHNIQUES (2015 Pattern)

Time	e:1 H	lour] [M	Tax. Marks :30
Instr	uctio	ns to the candidates:	
	<i>1)</i>	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.	
	<i>2)</i>	Neat diagrams must be drawn wherever necessary.	
	3)	Figures to the right side indicate full marks.	
	4)	Assume suitable data if necessary.	
Q1)	a)	What is the scope of Infrastructure Engineering in Nation	al and Global
	800	development?	[5]
	b)	Define and Draw a neat labeled diagram of Permanent Wa	y. [3]
	c)	Differentiate between Metro Rail and Mono Rail.	[2]
		OR	
Q2)	a)	What are the advantages and disadvantages of PPP?	[4]
	b)	Explain with neat labeled diagram coning of rails and Tiltin	ng of Rails. [6]
		Sp.	300
Q3)	a)	Define the following.(Any Four)	[4]
		i) Cant Deficiency	
		ii) Super elevation	
		iii) Equilibrium Speed	
		iv) Negative Cant	
		v) Pusher Gradient	
	b)	What are the ill effects on rail joints and their remedial me	asures? [6]

Q4) a) Write short note on Short and Long welded rails. [4]

b) Define points and crossing. Draw a neat labeled diagram of turnout. [6]

Q5) a) Why is there necessity of Mechanization? [4]

b) Mention the various methods of dewatering system. Explain any one method with suitable sketch. [6]

OR

Q6) a) Define the term dredging. Explain any one type of dredging technique. [5]

b) What are the advantages and disadvantages of Prefabrication? [5]

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