Total No. of Questions :6]	SEAT No. :	:
P5054	[Tota	al No. of Pages :

T.E./Insem.-602 T.E. (Civil) (Semester - I) INFRASTRUCTURE ENGINEERING & CONSTRUCTION TECHNIQUES (2015 Pattern)

		CONSTRUCTION TECHNIQUES	
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		(2015 Pattern)	
7F19			2.0
		Hour] [Max. Mark	is:30
LNST	ucu 1)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.	
	2)	Neat diagrams must be drawn wherever necessary.	
	3)	Figures to the right side indicate full marks.	
	<i>4)</i>	Assume suitable data if necessary.	
0.11		9.	
<i>Q1)</i>	a)	What is the scope of Infrastructure Engineering in National and G	
	7	development?	[5]
	b)	Define and Draw a neat labeled diagram of Permanent Way.	[3]
	- /		r. 1
	c)	Differentiate between Metro Rail and Mono Rail.	[2]
		OK OK	0
<i>Q2</i>)	a)	What are the advantages and disadvantages of PPP?	[4]
	1 \		2
	b)	Explain with neat labeled diagram coning of rails and Tilting of Rail	s. [6]
		86°.	
.			F 43
<i>Q3)</i>	a)	Define the following.(Any Four)	[4]
		i) Cant Deficiency	
		ii) Super elevation	
		ii) Super elevation iii) Equilibrium Speed iv) Negative Cant	
		iv) Negative Cant	
		TV) TVegative Cant	
		v) Fusilei Giadient	
	b)	What are the ill effects on rail joints and their remedial measures?	[6]
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OR

- **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]