

Total No. of Questions : 6]

SEAT No. :

P4886

[Total No. of Pages : 2

T.E./Insem.- 102

T.E. (Civil)

**INFRASTRUCTURE ENGINEERING
(2012 Pattern) (Semester - I)**

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 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.*
- 4) *Assume suitable data if necessary.*

Q1) a) Discuss in detail role of infrastructure engineering in nation development. **[5]**

b) Explain the provision made for the infrastructure of airports & ports with reference to 12th five year plan. **[5]**

OR

Q2) a) Explain with suitable example the need of mechanization in construction sector. **[5]**

b) Discuss with suitable example the necessity of PPP projects in india. **[5]**

OR

Q3) a) Write short note on types of railway sleepers. **[6]**

b) Write short note on Tilting of rails. **[4]**

OR

Q4) a) What is ballast? Enlist various types of material used for Ballast. **[4]**

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

P.T.O.

- Q5)** a) Write short note on slip form technique. [4]
b) What are the various methods of dewatering system? Explain any method with suitable sketch. [6]

OR

- Q6)** a) Define the term dredging. Explain any one type of dredging technique.[5]
b) What is hoisting? Enlist various types of hoisting equipment. [5]



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