atyasaheb Kore Institute o Engineering and Technolog.

R-1384

Seat Varananagar, Dist. Kolhagu. No.

Total No. of Pages: 2

T.E. (Civil Engineering) (Semester - V) Examination, December - 2014 CONCRETE TECHNOLOGY (New)

Sub. Code: 45539

Total Marks: 100 Day and Date: Tuesday, 16 - 12 - 2014

Time: 2.30 p.m. to 5.30 p.m.

Solve any Three questions from each section. Instructions: 1)

> Figures to the right indicate full marks 2)

SECTION - I

Explain the modern method of cement manufacturing. [8] Q1) a)

b) Explain:

> Setting Times and i)

Soundness of cement ii)

[8]

Explain: (02) a)

Grading of Aggregates

Bulking of sand ii)

[8]

Explain 'Alkali-Aggregate Reaction'. How it is controlled? b)

[8]

Enlist the steps of manufacture of concrete. Explain any one in detail.[8] 03) a)

What is 'Workability of concrete'? How it is measured on the site? [8] b)

Write an exhaustive note on 'Superplasticizers' Q4) a)

[8]

Explain the factors affecting the strength of concrete. b)

[10]

P.T.O.

SECTION - II

Q5)	a)	Enlist the data required for Concrete Mix Design. Explain any one met of Concrete Mix Design.	hod [10]
	b)	Explain 'Durability of Concrete and factors affecting it'	[8]
Q6)	a)	Write notes on:	[8]
		i) Sulphate attack	
		ii) Corrosion of steel	
	b).	Explain:	[8]
		i) Hot weather concreting	
		ii) High Performance Concrete	
Q7)	a)	Explain the types of shrinkage in concrete.	[8]
	b)	Explain 'Vacuum Concrete' with a neat sketch.	[8]
Q8)	a)	Explain 'Rebound Hammer Test' in detail.	[8]
	b)	Explain 'U.P.V. Test' in detail.	[8]

