Total No.	of Questions	: 6]
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SEAT No.:	
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APR-17/BE/Insem.-13 B.E. (Civil)

		B.E. (Civil)
		FERROCEMENT TECHNOLOGY
		(2012 Pattern) (Elective) (Semester - II)
Time	e:1H	four] [Max. Marks : 30
Instr	uction	ns to the candidates:
	1) 2) 3)	Answer Q1 or Q2, Q3 or Q4, Q5 or Q6. Neat diagrams must be drawn wherever necessary. Figures to the right side indicate full marks.
Q1)	a)	Define Ferrocrete and write the advantages and disadvantages of Ferrocrete? [5]
	b)	What are the different raw materials used in forming Ferrocrete and the skills required in fabricating and casting of Ferrocrete structures? [5]
		OR
Q 2)	a)	Compare ferrocement with fiber reinforced concrete? [5]
	b)	Discuss in detail the various types of meshes used in ferrocement construction? [5]
Q 3)	a)	Enlist the various parameters affecting the properties of ferrocrete. Explain in short the properties affected by volume fraction and specific surface?[5]
	b)	Explain tying of the mesh and mortaring the mesh during construction of the ferrocrete structure? [5]
		OR
Q 4)	a)	Draw the curve and explain three stage behaviour of ferrocrete in tension?[5]
	b)	Write note on protective surface treatments? [5]

P.T.O.

- Q5) a) Explain the natural forms of ferrocrete like Rain drop as a solid sphere,Soap bubble as a spherical shell and shape of an egg? [5]
 - b) What are the design recommendations made by ACI while designing the ferrocrete structure by limit state or working stress method? [5]

OR

- Q6) a) Evaluate the predominant stresses in the structural members like Cantilever beam, T- beam and Pipe?[5]
 - b) Discuss working stress method for design of ferrocement? [5]

