

MARRI LAXMAN REDDY INSTITUTE OF TECHNOLOGY AND MANAGEMENT

(AN AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad)
Accredited by NBA and NAAC with 'A' Grade & Recognized Under Section2(f) & 12(B)of the UGC act, 1956

III B.Tech I Sem Supply End Examination, July 2022 Concrete Technology (CIVIL)

Time: 3 Hours.

Max. Marks: 70

- Note: 1. Question paper consists: Part-A and Part-B.
 - 2. In Part A, answer all questions which carries 20 marks.
 - 3. In Part B, answer any one question from each unit. Each question carries 10 marks and may have a, b as sub questions.

PART- A

(10*2 Marks = 20 Marks)

1.	a)	Write any two admixtures to improve workability	2M	CO1	BL1
	b)	What is the significance of grade of cement	2M	CO1	BL1
	c)	Differentiate five aggregate with coarse aggregate	2M	CO2	BL2
	d)	Write any two properties of recycled aggregate	2M	CO2	BL1
	e)	Explain the reason of segregation in concrete	2M	CO3	BL4
	f)	What is the test to measure flow ability of fresh concrete	2M	CO3	BL1
	g)	Write the purpose of 'NDT'	2M	CO4	BL1
	h)	What is meant by dynamic modules of elasticity	2M	CO4	BL1
	i)	Differentiate high density concrete with ordinary concrete	2M	CO5	BL2
	j)	What properties of concrete are modified required to make SCC	2M	C05	BL1
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PART-B

(10*5 Marks = 50 Marks)

2	a)	Explain the chemical composition of cement	5M	CO1	BL4
	b)	Give examples of chemical admixtures	5M	CO1	BL1
		OR			
3		Write the procedure to find settling time of cement	10M	CO1	BL1
4	a)	Explain thermal properties of aggregates	5M	CO2	BL4
	b)	Explain how to draw grading curve	5M	CO2	BL4
		OR			
5		Write the experimental procedure to find out (i) bulk density (ii) adsorption (iii) Moisture content of fine aggregate	10M	CO2	BL1

a)	Explain various environmental factors affecting the workability of concrete	5M	CO3	BL4				
b)	What is meant by revibration of concrete?	5M	CO3	BL1				
OR								
	Write the experimental procedure to prepare fresh concrete	10M	CO3	BL1				
a)	What are the physical properties of concrete	5M	CO4	BL1				
b)	Write the procedure to find out split tensile strength of concrete	5M	CO4	BL1				
OR								
	Explain various factors contributing the gain of concrete strength	10M	CO4	BL4				
a)	Explain the BIS Method of mix design	5M	CO5	BL4				
b)	Explain the significance of no fines concrete	5M	CO5	BL4				
OR								
	Differentiate the light weight concrete with High density concrete	10M	CO5	BL2				
	b)a)b)	concrete b) What is meant by revibration of concrete? OR Write the experimental procedure to prepare fresh concrete a) What are the physical properties of concrete b) Write the procedure to find out split tensile strength of concrete OR Explain various factors contributing the gain of concrete strength a) Explain the BIS Method of mix design b) Explain the significance of no fines concrete OR	concrete b) What is meant by revibration of concrete? 5M OR Write the experimental procedure to prepare fresh concrete 10M a) What are the physical properties of concrete 5M Write the procedure to find out split tensile strength of concrete 5M OR Explain various factors contributing the gain of concrete strength 10M a) Explain the BIS Method of mix design 5M b) Explain the significance of no fines concrete 5M	concrete b) What is meant by revibration of concrete? OR Write the experimental procedure to prepare fresh concrete 10M CO3 a) What are the physical properties of concrete 5M CO4 b) Write the procedure to find out split tensile strength of concrete OR Explain various factors contributing the gain of concrete strength 10M CO4 a) Explain the BIS Method of mix design 5M CO5 CO5 OR				

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