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Vivekananda College of Engineering & Technology, Puttur
 [A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]
 Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

CRM08

Rev 1.10

<Civil>

<25/08/2022>

CONTINUOUS INTERNAL EVALUATION - 3

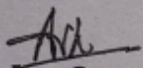
Dept: Civil	Sem / Div: 4 th A	Sub: Concrete Technology	S Code: 18CV44
Date: 01/09/22	Time: 3:00-4:30 pm	Max Marks: 50	Elective: N

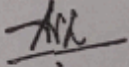
Note: 1. Answer any 2 full questions, choosing one full question from each part.
 2. IS10262 -2009 & IS456- 2000 is Permitted

QN	Questions	Marks	RBT	CO's
PART A				
1 a	Design a concrete mix proportioning for the data given below. Grade designation : M50, Type of cement : OPC 43 grade, Maximum nominal size of aggregate : 20mm Workability : 100mm (slump) Exposure condition : severe, Type of Aggregate : Crushed angular aggregates Chemical admixture type : Super plasticizers. Specific gravity of cement : 3.15 Specific gravity of fine aggregate : 2.60 Specific gravity of coarse aggregate : 2.70 Specific gravity of admixture : 1.145 Sieve Analysis: i) Coarse aggregate: Conforming to Table 2 of IS: 383 ii) Fine aggregate: Conforming to grading zone 1 of Table 4 of IS: 383	25	L5	CO3
OR				
2 a	What is meant by concrete mix designs? Write the steps involved in the method of mix designs (IS 10262-2009)	15	L3	CO3
b	Define nominal mix, and its types, explain the importance of design mix in the RCC design of structural members	10	L2	CO3

PART B

3	a	Write a short note on (i) Light weight concrete (ii) Mineral Admixtures (iii) FRC (iv) Compaction of concrete	20	L2	CO4
	b	Explain the materials used for SCC?	5	L2	CO4
OR					
4	a	Explain the different fiber types used in fibre reinforced concrete?	15	L2	CO2
	b	State the advantages and disadvantages of RMC?	10	L2	CO2


Prepared by: Dr. Ananda V R


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