

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>	<30/06/2022>
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CONTINUOUS INTERNAL EVALUATION - 1

Dept: Civil	Sem / Div: 4 th / A	Sub: Concrete Technology	S Code:18CV44
Date:5/07/2022	Time: 3:00-4:30 pm	Max Marks: 50	Elective:N

Note: Answer any 2 full questions, choosing one full question from each part.

QN	Questions	Marks	RBT	CO's
PART A				
1 a	Write a flow chart to illustrate the steps involved in the manufacture of Portland cement by wet process	10	L2	CO1
b	List the four main chemical compounds of Portland cement and give their chemical composition	5	L2	CO1
c	What do you meant by grading of aggregates? Explain the importance of size, shape and texture with respect to coarse aggregate.	10	L2	CO1
OR				
2 a	Explain briefly the role of Bogue's compounds on the development of strength in cement	10	L2	CO1
b	List out the tests conducted on cement and explain with neat sketches any three laboratory tests of cement	10	L2	CO1
c	What is bulking of sand ? Explain briefly	5	L2	CO1
PART B				
3 a	What do you mean by segregation of a concrete mix? How to prevent it?	5	L2	CO2
b	With sketches explain the procedure of slump cone test to determine the workability of concrete	10	L3	CO2

	c	What are the factors affecting workability and discuss in brief	10	L3	CO2
OR					
4	a	What is segregation and bleeding ? Explain briefly Causes and prevention methods of bleeding of concrete	10	L3	CO2
	b	Explain with neat sketch the procedure of determining the workability of concrete by Compaction factor test	10	L3	CO2
	c	Explain briefly how size and shape of aggregates influence the workability of concrete	5	L3	CO2

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Prepared by: Dr. Ananda V R

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