

**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>

3/3/22

**CONTINUOUS INTERNAL EVALUATION - 1**

Dept: CIVIL	Sem / Div: 3A	Sub: Building Materials and Construction	S Code: 18CV34
Date: 4/3/2022	Time: 2.00-3:30 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
<b>PART A</b>				
1	a Write the requirements of good building stones.	7	L2	CO1
	b Explain the classification of mortars.	10	L2	CO1
	c Briefly explain the tests conducted on fine aggregates. i) Sieve analysis; ii) Specific gravity test	8	L2	CO1
<b>OR</b>				
2	a Explain the importance of shape, size and texture of coarse aggregates in cement concrete making.	7	L1	CO1
	b Explain physical and chemical classification of rocks.	10	L2	CO1
	c Explain Flakiness Index and Elongation Index test on coarse aggregates.	8	L2	CO1
<b>PART B</b>				
3	a Write the functions and requirements of good foundation.	6	L2	CO2
	b Explain strip footing and strap footing with sketches.	12	L2	CO2

	c	Explain sub soil exploration for new structures and existing structures. List the method of site exploration.	7	L2	CO2
<b>OR</b>					
4	a	Explain the grillage foundation with neat sketch.	8	L1	CO2
	b	What is pile foundation ? Explain with sketches the classification of pile foundation based on its function.	7	L2	CO2
	c	Explain plate load test with neat sketch.	10	L2	CO2

Prepared by: Prof. Surekha T

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HOD