Roll No. _____

END SEMESTER EXAMINATION
SEMESTER- III

COURSE CODE : CE401 **DURATION : 3 (THREE)HRS**
COURSE TITLE :BUILDING MATERIALS **MAXIMUM MARKS : 75**
SESSION : JULY-DEC'2021 **PASS MARKS : 35 %**

NOTE:
1. All the questions are compulsory
2. Attempt any 5 (five) questions.
3. Mark for each question is shown against it.
4. Assume suitable logical data wherever necessary.

1.	**(a)**	What are the different compositions of brick? Discuss their various functions.	**(2+4)**
	(b)	How bricks are classified? Explain in details.	**(6)**
	(c)	Explain Attrition test of stone.	**(3)**
2.	**(a)**	Write any five differences between dry and wet process involved in manufacturing of cement**.**	**(5)**
	(b)	What are the characteristics of good building stone?	**(5)**
	(c)	Define Efflorescence.	**(2)**
	(d)	Write short notes on classification of timber.	**(3)**
3.	**(a)**	What are the various defects of timber? Explain in details with diagram.	**(1+5)**
	(b)	What is Pug Mill? Enumerate with diagram.	**(4)**
	(c)	Explain the structure of timber.	**(5)**
4.	**(a)**	Write down the properties and uses of the following (i) Terracotta (ii) Tiles	**(3+3)**
	(b)	Explain the various field tests to be carried out to roughly ascertain the quality of cement.	**(4)**
	(c)	What is bulking of sand? Write its ill effects and preventive measures.	**(5)**
5.	**(a)**	What is seasoning of timber? Write the advantages of seasoning of timber? Explain various method of seasoning of timber.	**(1+3+4)**
	(b)	How lime is classified?	**(3)**
	(c)	What is mortar? Briefly explain the various types of mortar.	**(4)**
6.	**(a)**	What are the characteristics of good building bricks?	**(4)**
	(b)	On which basis rock are classified? Briefly explain.	**(5)**
	(c)	What are the different types of cement? Explain any three with its uses.	**(6)**
7.	**(a)**	Explain the manufacturing of brick.	**(8)**
	(b)	What is concrete? Write are the uses of concrete.	**(1+3)**
	(c)	What is frog? State the purpose of frog in the brick.	**(1+2)**
8.	**(a)**	What are the chemical constituents of cement? Explain their function.	**(1+5)**
	(b)	What are dry and wet rots of timber? How are they caused and prevented?	**(6)**
	(c)	Define porcelain and their uses.	**(3)**

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