

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)**

**CLASS: BTECH
BRANCH: CIVIL**

**SEMESTER : 3rd
SESSION : MO/2025**

SUBJECT: CE24204 BUILDING MATERIALS AND CONSTRUCTION

TIME: 02 Hours

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
-

		CO	BL
Q.1(a)	Write down the major classifications of rocks and explain its subdivision	[2] 1	K1
Q.1(b)	Write down the function of constituents of brick earth?	[3] 1	K1
Q.2(a)	Discuss the burning process of brick by Hoffman's Kiln method.	[2] 1	K1
Q.2(b)	Discuss the operation of preparation of soil for the manufacture of bricks	[3] 1	K1
Q.3(a)	Write the test performed on cement and explain the process of consistency test.	[2] 2	K2
Q.3(b)	Write chemical composition of cement with percentage? What are the bogue's compound and its formula?	[3] 2	K2
Q.4(a)	Write and explain different types of mortar.	[2] 2	K2
Q.4(b)	Write the types of lime and its properties?	[3] 2	K2
Q.5(a)	Write different types of timber	[2] 2	K2
Q.5(b)	What are the defects in timber?	[3] 2	K2

:::23/09/2025 :::E