Roll no (E/96

III SEMESTER

B.TECH CIVIL ENGINEERING

CE 201 CIVIL ENGINEERING BASICS AND APPLICATIONS

MAX. MARKS: 20

NOTE: ALL QUESTIONS ARE COMPULSORY ALL QUESTIONS CARRY EQUAL MARKS

TIME: 1.30 HOURS

ASSUME SUITABLE MISSING DATA, IF ANY

- common defects in clay bricks. 1. Enumerate the chief characteristics of first class building bricks. Describe the (4)CO-1
- should be subjected before it is selected for building purpose. 2. What is geological classification of rocks? Name the tests to which a stone (4) CO-1
- Discuss its significance. how initial and final setting times of cement are determined in the laboratory. 3. State the function and limits of ingredients of ordinary Portland cement. Explain (4)CO-1

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- material. 3. State the function of constituents of glass. Describe the use of glass as a building (4)CO-1
- 4. Define fineness modulus and its significance. The results of sieve analysis of fine aggregate are as follows. Determine the average size of the particles.

(4)CO-3							(b)
							retained (gm)
59.14	74.99	101.39	90.54	41.60	32.34	Z	Weight of soil Nil 32.34 41.60 90.54 101.39 74.99 59.14
							(mm)
0.150	1.18 0.600 0.300 0.150	0.600	1.18	size 10 4.75 2.36	4.75	10	Sieve size

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- 4. Describe the characteristics of good timber. Explain any one method of timber preservation.
- the laboratory. 5. Define flakiness index and elongation index. Explain how they are determined in (4)CO-3

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With a neat sketch describe various defects in timber.

(4)CO-1