Roll No.

Total No. of Pages : 2

Total No. of Questions: 09

B.Tech (CE) (Sem.-3) BUILDING MATERIALS Subject Code: CE-205 Paper ID: [A0603]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES:

- 1. SECTION-A is COMPULSORY.
- 2. Attempt any FOUR questions from SECTION-B.
- 3. Attempt any TWO questions from CECTION.C.

SECTION-A

 $(10 \times 2 = 20 \text{ Marks})$

- (a) The direction of natural bed should be perpendicular to the direction of pressure.
 - (b) Why are the moulds of bricks made longer by about 8 to 12 percent in all directions?
 - (c) The top layer of soil, about 20 cm in depth, is to be rejected for the purpose of preparing bricks. Explain.
 - (d) Is there any wastage of time I intermittent kilns? Why?
 - (e) The continuous flame kiln is widened in the middle portion. Why?
 - (f) Why is gypsum added to cement?
 - (g) Can sea water be used in making concrete?
 - (h) The dry sand and the sand completely flooded with water have practically the same volume. Why?
 - (i) Why the felling of trees in autumn and spring should be avoided?
 - (j) What are the different types of paints?

SECTION-B

 $(4 \times 5 = 20 \text{ Marks})$

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2. How are rocks physically and chemically classified?

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[A-12]

- 3. What is meant by artificial hydraulic lime? How is it manufactured?
- 4. How does cement set? What are the functions of four principle minerals?
- 5. What is meant by seasoning of timber? What are its objects?
- What are the ingredients of an oil borne paint? Describe briefly each of them.

SECTION-C (2 × 10

20 Marks)

- What is meant by curing of concrete? What is its purpose? Explain its methods.
- With the help of a neat sketch, explain the working of Bull's trench kiln for burning of bricks.
- 9. Explain the design mix procedure by IS codal provisions.