BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: BARCH SEMESTER: I
BRANCH: ARCH SESSION: MO/19

SUBJECT: AR102 PRIMARY BUILDING MATERIALS

TIME: 3 HOURS FULL MARKS: 50

INSTRUCTIONS:

- 1. The question paper contains 5 questions each of 10 marks and total 50 marks.
- 2. Attempt all questions.
- 3. The missing data, if any, may be assumed suitably.

b. Ready-mix concrete

- 4. Before attempting the question paper, be sure that you have got the correct question paper.
- 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.

Q.1(a) Define bond. Distinguish with the help of sketches between a wall in English bond and a wall in the [5] Flemish bond. Q.1(b) How is artificial stone prepared? What are its different forms also mention the advantages of artificial [5] stone? Describe the manufacturing process of pig-iron by blast furnace. [5] Q.2(b) What is the seasoning of timber? Why is it required? State various methods of seasoning and explain [5] anyone. Q.3(a) What is cement? What are its ingredients? State the function of each component. [5] Q.3(b) What is meant by the bulking of sand? Explain it. [5] Q.4(a) What is the mortar? Briefly describe the various types of mortars. [5] Q.4(b) Explain the different constituents of Limestone? [5] Q.5(a) What are the materials used in making R.C.C. work? [5] Q.5(b) Write short notes on the following [5] a. formwork for concrete

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