Makeup Examination – Sept. 2023
I Semester Diploma Examination

CONSTRUCTION MATERIALS (20CE11T)

Exam Date / Time: 20th Sep. 2023 / 2.00 PM

Time: 3 Hours　　　　　　　　　　　　　　　　**Max.Marks: 100**

Instructions: (1)　　Answer **one** full question from each section.

　　　　　　　　(2)　　One full question carries **20** marks.

SECTION – I

1. (a) What is stone? State its uses　　　　　　　　　　　　　　　　6

　(b) Based on geological classification how rocks are classified? Explain briefly.　　8

　(c) List the properties of good sand　　　　　　　　　　　　　　6

2 (a) What is quarrying? Explain with neat sketch the quarrying process of stones by

　　blasting method.　　　　　　　　　　　　　　　　　　　　10

　(b) Mention the qualities of an ideal preservative.　　　　　　　　5

　(c) What are the causes of deterioration of stones?　　　　　　　5

SECTION – II

3. a. List various defects in Timber.　　　　　　　　　　　　　　5

　b. Explain preservation of Timber.　　　　　　　　　　　　　　5

　c. Mention the properties of Asphalt and its uses.　　　　　　　10

4. a. with neat sketch explain clamp burning of bricks.　　　　　　10

　b. Explain the characteristics of good bricks.　　　　　　　　　10

SECTION – III

5. a. List the properties and uses of aerated concrete blocks.　　　10

　b. Explain different varieties of glazed tiles and vitrified tiles.　　10

6. a. With neat Sketch Explain the process of Clamp Burning of Bricks.   10

   b. Explain the burning process of cement with a neat sketch.   10

SECTION – IV

7. (a) What are the types of Glasses and explain any one?   5

   (b) List different types of Tiles and explain Any One   5

   (c) What is an alloy? Name the different types of alloys and explain any one?   5

   (d) List the different types of Artificial Timber.   5

8. (a) List any five uses of Plaster of Paris (POP)   5

   (b) Explain the properties and uses of FRP (Fiber Reinforced Plastic)   10

   (c) What are the Characteristics of a good paint?   5

SECTION – V

9. a. State the uses and Properties of Varnish.   10

   b. What are the properties of a good paint? Mention the ingredients of paints.   10

10. a. Write the uses/applications of Short Crete and Non-Shrink Grouts.   10

   b. Write Properties and Uses Geo Polymer Concrete.   10