

1019**Code : 15CE11T***Register
Number*

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|

I Semester Diploma Examination, Oct./Nov.-2019**MATERIALS OF CONSTRUCTION****Time : 3 Hours]****[Max. Marks : 100**

- Instructions :** (i) Answer any **six** questions from Part – A
(ii) Answer any **seven** questions from Part – B.

PART – A

1. Describe geological classification of rocks. **5**
2. Explain acid test and attrition tests on stone. **5**
3. Explain with neat sketch the working of pug mill in manufacture of bricks. **5**
4. Explain the burning of bricks by clamps with neat sketch. **5**
5. Write the composition of ordinary port land cement. **5**
6. Draw and lable the cross-section or an exogenous tree. **5**
7. List any five properties of good timber. **5**
8. What are the field tests conducted on cement ? **5**
9. List any five properties and uses of cast iron. **5**

PART – B

10. What are the causes of deterioration of stone and mention the preservatives commonly used ? **10**
11. Explain crushing test and water absorption test on stone. **10**

12. Draw a neat sketch and explain burning of bricks in intermittent kilns. 10
13. (a) Explain classification of bricks as per I.S. specifications. 5
(b) Write the requirements of good bricks. 5
14. (a) Explain the classification of timber based on mode of growth. 5
(b) List the properties of good timber. 5
15. (a) What are the objects of preservation of timber ? 5
(b) What are market forms of timber ? 5
16. What are the different varieties of cement ? Mention their uses in construction industry. 10
17. (a) Describe characteristics of an ideal paint. 5
(b) What are the ingredients of oil paint ? 5
18. (a) Write any five properties and uses of aluminium. 5
(b) Write any five properties and uses of tin. 5
19. (a) List the types of copper alloys. Mention the properties and uses. 5
(b) List the properties and uses of high tensile steel. 5