

Roll no. \_\_\_\_\_

ID: 220724

2<sup>nd</sup> Semester

Branch: Civil

Subject Name: Construction Materials

Time Allowed : 3 Hrs.

MM: 60

**Section –A**

**Note: Multiple Choice questions. All questions are compulsory.**

**6x1=6**

- |     |  |      |
|-----|--|------|
| Q.1 | The water absorption capacity of bricks should not be more than          | CO-2 |
|     | a) 10%                                      b) 15%                       |      |
|     | c) 20%                                      d) 25%                       |      |
| Q.2 | Alkalies and salts if present in brick earth, produce                    | CO-3 |
|     | a) efflorescence                              b) shrinkage               |      |
|     | c) expansion                                      d) warp                |      |
| Q.3 | The final setting time of OPC is not more than                           | CO-4 |
|     | a) 30 minutes                                      b) 15 minutes         |      |
|     | c) 600 minutes                                      d) none of the above |      |
| Q.4 | Decay in timber is due to  | CO-5 |
|     | a) Moisture                                      b) imperfect seasoning  |      |
|     | c) Termite                                      d) All of the above      |      |
| Q.5 | The vehicle used in distemper is   | CO-6 |
|     | a) base                                      b) water                    |      |
|     | c) Pigment                                      d) plasticizers          |      |
| Q.6 | Ferrous metal are which contain .....in large quantity                   | CO-7 |
|     | a) iron                                      b) mild steel               |      |
|     | c) wrought iron                                      d) Aluminium        |      |

**Section-B**

**Note: Objective/Completion type questions. All questions are compulsory.6x1=6**

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|------|--|------|
| Q.7  | Granite is much stronger than lime stone.  | CO-1 |
| Q.8  | Gypsum increase the initial setting time of cement.  | CO-3 |
| Q.9  | The compressive strength of OPC after three days is not less than 115 kg/cm <sup>2</sup> . | CO-4 |
| Q.10 | Seasoning of timber is done to increase in strength and durability                         | CO-5 |
| Q.11 | Full form of PVC is Polyvinyl chloride. (True/False)                                       | CO-8 |
| Q.12 | A good insulator should have prevent texture   | CO-9 |

**Section –C**

**Note: Short answer type Questions. Attempt any eight questions out of ten questions.**

**8x4= 32**

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|------|--|------|
| Q.13 | Enlist any five uses of stones in construction                         | CO-1 |
| Q.14 | Describe five properties of good brick making earth.                   | CO-2 |
| Q.15 | Write a short note on paver blocks, interlocking tiles.                | CO-3 |
| Q.16 | Differentiate between OPC and PPC (any five differences)               | CO-4 |
| Q.17 | Explain five characteristics of good timber                            | CO-5 |
| Q.18 | Differentiate oil paint, water paint and cement paint.                 | CO-6 |
| Q.19 | Describe the two properties and uses of (a) Cast iron (b) wrought iron | CO-7 |
| Q.20 | Define ACP and HPL sheets with their uses.                             | CO-8 |
| Q.21 | Explain the various method of termite proofing.                        | CO-9 |
| Q.22 | Describe seasoning of timber with their purposes?                      | CO-5 |

### Section-D

**Note: Long answer questions. Attempt any two questions out of three questions.**  
**2x8=16**

- Q.23 Explain Bull's Trench kiln with diagram. CO-2  
Q.24 Enlist the various laboratory tests conducted on cement? Explain any one. CO-4  
Q.25 Explain Eco-friendly material with their types and properties. CO-9