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Roll No. ....

220724

**2nd Sem / Branch : Civil Engineering**  
**Sub.: Construction Material**

Time : 3Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Which of the following is not a tool used for dressing stones. (CO1)  
a) Mallet                      b) Mason's hammer  
c) Crow Chisel              d) Jumper
- Q.2 The minimum crushing strength of brick (CO2)  
a) 75 kg/cm<sup>2</sup>                  b) 105 kg/cm<sup>2</sup>  
c) 120 kg/cm<sup>2</sup>                d) 140 kg/cm<sup>2</sup>
- Q.3 The initial setting time of quick setting cement is (CO4)  
a) 5 minutes                  b) 15 minutes  
c) 30 minutes                d) 40 minutes
- Q.4 Decay in timber is due to (CO5)  
a) Dry rot                      b) Insect effect  
c) Imperfect seasoning    d) All of the above
- Q.5 The vehicle used in distemper is (CO6)  
a) Thinner                      b) Water  
c) Turpentine oil            d) None of the above

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- Q.6 The purest form of iron is (CO7)  
a) Cast iron                  b) Steel iron  
c) Wrought iron              d) All of the above

**SECTION-B**

**Note:** Objective type questions. All questions are compulsory. (6x1=6)

- Q.7 \_\_\_\_\_ bricks are required for one cubic meter of masonry. (CO1)
- Q.8 Gypsum is added to control the \_\_\_\_\_ of cement. (CO4)
- Q.9 The basic constituents of an oil paint are \_\_\_\_\_? (CO6)
- Q.10 Ferrous metals are those which contain \_\_\_\_\_ in large quantity. (CO8)
- Q.11 The PVC wall panels are \_\_\_\_\_ plastic product. (CO8)
- Q.12 Green building material should be \_\_\_\_\_? (CO9)

**SECTION-C**

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Enlist five uses of stone in construction? (CO1)
- Q.14 Write any five requirements of good brick earth. (CO2)

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- Q.15 Write short note on  
 a) Sun dried brick  
 b) Traditional brick. (CO2)
- Q.16 Define PVC tiles and interlocking tiles. (CO3)
- Q.17 Describe three properties and uses of ordinary Portland cement. (CO4)
- Q.18 Enlist any five characteristics of a good building timber? (CO5)
- Q.19 Define oil paints and water paints. (CO6)
- Q.20 What are the uses of metals in building construction. (CO7)
- Q.21 Explain properties of ACP sheets. (CO8)
- Q.22 Describe the characteristics of green building. (CO9)

### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)
- Q.23 Explain Bull's Trench kiln with line diagram. (CO2)
- Q.24 Explain with a neat sketch the manufacturing of cement by wet process. (CO4)
- Q.25 What are the various methods of seasoning timber? Describe in details the process of kiln seasoning. (CO9)