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## **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

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 used 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)

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