

No. of Printed Pages : 4 180734/170734/120734  
Roll No. .... /030734

**3rd Sem / Civil, GE, Brick Tech, Const Mgmt,  
Highway Engg.  
Subject:- Construction Materials**

Time : 3Hrs. M.M. : 100

## **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which of the following is chemical composition of dolomite. (CO1)

  - a)  $MgCO_3$
  - b)  $CaCO_3$
  - c) Both A & B
  - d) None of above

Q.2 The standard size of Brick is (CO2)

  - a) 20x10x10 cm
  - b) 19x9x9 cm
  - c) 20x10x8 cm
  - d) 19x9x8 cm

Q.3 The average weight of a Brick is (CO2)

  - a) 20 to 25 N
  - b) 25 to 30 N
  - c) 30 to 35 N
  - d) 35 to 40 N

Q.4 The Process of mixing of clay, water and other ingredients to make bricks is (CO2)

  - a) Tempering
  - b) Moulding
  - c) Kneading
  - d) Plugging

Q.5 The initial setting time of cement (OPC) is (CO3)

  - a) 15 min
  - b) 30 min
  - c) 45 min
  - d) 60 min

Q.6 The central part of a tree is known as (CO4)

- a) Heart
- b) Sap
- c) Pith
- d) Bark

- Q.7** Which of the following is not a seasoning process  
(CO4)

- Q.8 The melting point of Mild steel is about (CO6)

  - a) Chemical
  - b) Electrical
  - c) Aucu Treatment
  - d) Boiling
  - a)  $1200^{\circ}\text{C}$
  - b)  $1300^{\circ}\text{C}$
  - c)  $1400^{\circ}\text{C}$
  - d)  $1500^{\circ}\text{C}$

- Q.9 The specific gravity of Mild steel is equal to (CO6)

  - a) 7.5
  - b) 7.6
  - c) 7.7
  - d) 7.8

- Q.10 Which of the following is not vehicles for Paint  
(CO5)

  - a) Linseed oil
  - b) Tung oil
  - c) Poppy oil
  - d) None of above

## **SECTION-B**

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 The crushing strength of Granite is \_\_\_\_\_ N/mm<sup>2</sup>.  
(CO1)

Q.12 The un soiling, in preparation of clay for Brick is done upto \_\_\_\_\_ mm in depth. (CO2)

Q.13 In kiln the function perform before Burning is . (CO2)

(1) 180734/170734/120734  
/030734

- Q.14 The OPC found \_\_\_\_\_% of its final strength in 28 days (CO3)
- Q.15 Write down one type of preservative used in Preservation of timber. (CO4)
- Q.16 The liquid part of the paint is called \_\_\_\_\_ (CO5)
- Q.17 The wood used for furniture is known as \_\_\_\_\_ (CO4)
- Q.18 The cast iron contains about \_\_\_\_\_% carbon (CO6)
- Q.19 The glass is cut in required size with the help of \_\_\_\_\_. (CO7)
- Q.20 Wood is \_\_\_\_\_ conductor of electricity (CO4)

### SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Write down 4 names of Igneous Rocks also write 2 uses of Igneous Rocks. (CO1)
- Q.22 Explain the process of Preparation of clay in Brick manufacturing. (CO2)
- Q.23 Write down uses of Roof tiles. (CO2)
- Q.24 Write down the procedure of Consistency Test of Cement. (CO3)
- Q.25 Explain the defects due to fungi in Timber. (CO4)
- Q.26 Write down 5 difference between Bull's trench Kiln and Hoffman's Kiln. (CO2)

- Q.27 What is seasoning of timber. Explain one method of Artificial seasoning. (CO4)
- Q.28 Write down the types of paints. Explain any two types of paints. (CO5)
- Q.29 Write down and explain five properties of plastics. (CO7)
- Q.30 Draw flow chart & explain the Wet process for mixing of Raw materials of cement. (CO3)
- Q.31 Classify the trees on basis of engineering properties. (CO4)
- Q.32 Write down the qualities of Good Bricks. (CO2)
- Q.33 Name the types of Cast-iron and explain Gray cast-iron. (CO6)
- Q.34 Explain water Proofing materials and uses. (CO7)
- Q.35 Write down the Tests performed on Brick explanation of them. (CO2)

### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Write down the types of paint. Explain any 5 types of paints. (CO5)
- Q.37 Explain various test conducted on cement. Explain both field test and laboratory test. (CO3)
- Q.38 Explain various types of continuous Kilns. also draw the sketch of Hoffman's kiln. (CO2)