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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

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- 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)
a) Chemical b) Electrical
c) Autoclave Treatment d) Boiling
- Q.8 The melting point of Mild steel is about (CO6)
a) 1200°C b) 1300°C
c) 1400°C d) 1500°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/mm². (CO1)
- Q.12 The unsoiling, in preparation of clay for Brick is done upto _____ mm in depth. (CO2)
- Q.13 In kiln the function performed before Burning is _____. (CO2)

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- 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 explain one 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 tests 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)