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Roll No.

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

Time : 3 Hrs.

MM : 100

SECTION-A

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

- Q.1 Granite is an example of (CO1)
a) Aqueous rocks b) sedimentary rocks
c) metamorphic rocks d) igneous rocks
- Q.2 The crushing strength of a stone depends upon its(CO1)
a) Texture b) Specific Gravity
c) Work ability d) Both A & B
- Q.3 For one cubic meter of brick masonry, the numbers of bricks required are (CO2)
a) 400 b) 450
c) 500 d) 550
- Q.4 The frog of a brick is normally made on its. (CO2)
a) Longer face b) Shorter face
c) Bottom face d) Top face

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- Q.5 The bricks should be burnt at temperature from:(CO2)
a) 300°C to 500°C b) 500°C to 800°C
c) 800°C to 1000°C d) 1000°C to 1200°C
- Q.6 The expansion in portland cement can be tested by. (CO3)
a) Fineness test b) Soundness test
c) Setting time test d) Normal consistency test
- Q.7 Which of following is /are roof tiles: (CO2)
a) Flat Tiles b) Corrugated Tiles
c) Mangalore Tiles d) All the above
- Q.8 The wood generally used for railway sleepers is (CO4)
a) Mango b) Kail
c) Babul d) Deodar
- Q.9 The commonly used solvent in oil paints is. (CO5)
a) Turpentine b) Naptha
c) Either A or B d) None of these
- Q.10 Mild steel is also known as (CO6)
a) Low carbon steel b) Soft steel
c) Dead steel d) Both A & B

Section-B

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

- Q.11 Write full form of FRP. (CO7)

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- Q.12 Name one Eco-friendly Building Material. (CO7)
- Q.13 Write Two Commercial forms at steel. (CO6)
- Q.14 The vehicle used in distemper is _____ (water/thinner) (CO5)
- Q.15 Annual rings represent _____ of the tree. (CO4)
- Q.16 Decay of Timber is due to _____. (CO4)
- Q.17 Mortar is a mixture of cement _____ and water. (CO3)
- Q.18 Gypsum is added to control _____ of cement. (CO3)
- Q.19 Silica prevents _____ in brick earth. (CO2)
- Q.20 Maible is a _____ type of rock. (CO1)

Section-C

Note: Short answer type Question. Attempt any twelve questions out of fifteen Questions. (12x5=60)

- Q.21 Explain the chemical classification of stones. Give examples also. (CO1)
- Q.22 Write down the properties and used of marble. (CO1)
- Q.23 What are the properties of good brick making earth? (CO2)
- Q.24 Name four types of Roofing tiles also draw neat sketches. (CO2)
- Q.25 Draw flow diagram for manufacture of cement by wet process. (CO3)
- Q.26 Write any four difference b/w Rapid Hardening cement and quick setting cement. (CO3)
- Q.27 Draw neat cross-section of an exogenous tree and write name of all components. (CO4)

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- Q.28 Difference b/w soft wood and Hard wood. Write any five difference. (CO4)
- Q.29 Write short note on decay of timber due to fungi. (CO4)
- Q.30 What are the ingredients of a Varnish ? Explain each in brief. (CO5)
- Q.31 What are the characteristics of a good paint. (CO5)
- Q.32 What are the properties and uses of stainless steel. (CO6)
- Q.33 Write down 5-5 commercial forms of steel and Aluminum. (CO6)
- Q.34 Write short note on water proofing of roofs. (CO7)
- Q.35 Write down five properties of Eco-Friendly building materials. (CO7)

Section-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x10=20)

- Q.36 Write down steps involved in manufacturing of bricks. Explain any two steps in detail. (CO2)
- Q.37 Explain any two test of cement and also write any five properties of cement. (CO3)
- Q.38 What are the objective of Preservation of timber. Write down any five requirement of good preservative. Explain Ascu Treatment as per BIS code. (CO4)

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