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**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 following is an example of igneous rocks. (Co-1)

- a) Dolomite
- b) Sand stone
- c) Granite
- d) Lime stone

Q.2 The bonds of brick work is /are (Co-2)

- a) Header bond
- b) Flemish bond
- c) English bond
- d) All of the above

Q.3 The brick should not water absorption capacity more than (Co-2)

- a) 15 %
- b) 20%
- c) 25 %
- d) 30 %

Q.4 Which of the following process is not used in manufacturing of ties ? (Co-2)

- a) Moulding
- b) Finishing
- c) Drying
- d) Burning

Q.5 The composition (%) of lime (Cao) in cement (Co-3)

- a) 17-25
- b) 60-65
- c) 3-10
- d) 6-15

Q.6 The apparatus Le-chatelier's method is used to find . (Co-3)

- a) Initial setting
- b) Final setting
- c) Soundness
- d) Consistency

Q.7 Which of the following defect is occurring in timber due to fungi (Co-4)

- a) Chip mack
- b) Torn grain
- c) Brown rot
- d) Water stain

Q.8 The outer skin of the tree is known as. (Co-4)

- a) pith
- b) Sap wood
- c) outer bark
- d) Cambium layer .

Q.9 The ingredients of an oil borne paint is are (Co-5)

- a) Base
- b) Drier
- c) Vehicle
- d) All of the above

Q.10 The carbon content in wrought iron is varies from. (Co-5)

- a) Less then 0.1 %
- b) Less then 0.5 %
- c) Less then 1 %
- d) Less then 5 %

SECTION-B

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

Q.11 The crushing strength of Sand stone is _____ N/mm² (Co-1)

Q.12 In _____ test of brick testing , the two bricks are taken and they are struck with each other .(Co-2)

(1)

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(2)

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- Q.13 The nominal size of the modular brick is _____. (Co-5)
- Q.14 The percentage proportions of C₃A in OPC is _____. (CO3)
- Q.15 The sir Abel's process is used for which purpose in timber , to make timber _____. (CO4)
- Q.16 In M20 , the M stand for _____. (Co-3)
- Q.17 The colour of brick is red due to _____. (Co-4)
- Q.18 The test used to find expension of cement is known as _____. (Co-3)
- Q.19 The property of steel through which it can beaten into thin steel or leaves is known as _____. (Co-6)
- Q.20 The POP stands for _____ (Co-7)

SECTION-C

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

- Q.21 Describe various uses of stones . (Co-1)
- Q.22 Difference between clamp of kiln burning . write any five (Co-2)
- Q.23 Write down the function of cement ingredients . (Co-3)
- Q.24 Explain the filed tests for cement. (Co-3)
- Q.25 Write down different components of exogenous tree and draw the transverse section also . (Co-4)

- Q.26 What is thermo setting plastic and thermo plastic Explain the properties and uses of thermo setting plastic. (Co-7)
- Q.27 Explain the properties of mild steel and its uses (Co-6)
- Q.28 Describe the functions of an ideal paint. (Co-5)
- Q.29 Write down the uses of marble. (Co-1)
- Q.30 Describe the harmful ingredients in brick earth. (Co-2)
- Q.31 Write a short note on storage of timber. (Co-4)
- Q.32 Write five uses of aluminum. (Co-6)
- Q.33 What is fiber sheet. Explain uses . (Co-7)
- Q.34 Explain the materials used in interior decoration works . (Co-7)
- Q.35 Write down ingredients of an oil borne paint. Explain bases . (Co-5)

SECTION-D

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

- Q.36 Explain different types of defects of timber . (Co-4)
- Q.37 Explain various method of seasoning of timber . (Co-4)
- Q.38 Explain various types of cement. (Co-3)