

- them useful engineering materials?
- Q.28 List our different types of paint.
- Q.29 Differentiate between Portland Cement and white cement.
- Q.30 What are the qualities of good building stones.
- Q.31 Write the properties of fat lime.
- Q.32 Differentiate between fine aggregate and coarse aggregate.
- Q.33 Explain defects in timber with neat sketches.
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- Q.34 Differentiate between ferrous and non ferrous metals.
- Q.35 What is mortar? Explain function and qualities of good mortar.

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 List out the various types of glasses and state their properties and uses in construction.
- Q.37 What qualities in brick are essentially required from construction point of view?
- Q.38 What is seasoning of timber? What are various methods of seasoning? Explain any two methods in detail.

No. of Printed Pages : 4
Roll No.

120215/030215

**1st Sem.
Branch: Arch. Asstt.
Sub : Building Materials-I**

Time : 3Hrs. M.M. : 100

SECTION-A

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

- .Q.1 The disadvantage of plywood is
- a) Rough edges
 - b) High cost
 - c) Irregular grains on surface
 - d) Poor strength to weight ratio
- Q.2 The chemical composition of quick lime is _____.
 a) CaS b) CaO
 c) MgO d) MgS
- Q.3 Terra in terra-cotta means _____.
 a) Oven b) Baked
 c) Earth d) Burnt
- Q.4 Which of the following stone is used for decorative work in buildings?
 a) Granite b) Basalt
 c) Slate d) Kota
- Q.5 A heavy stone is suitable for
 a) Rubble masonry b) Arches
 c) Retaining walls d) Roads

- Q.6 Initial setting time of ordinary port land cement
 a) 10 minutes b) 15 minutes
 c) 30 minutes d) 1 hour strength
- Q.7 Pure limestones are indicated by _____ colour.
 a) Brown b) Blue
 c) Grey d) White
- Q.8 Which of the following metal highly prone to corrosion?
 a) Aluminum b) Copper
 c) Iron d) Zinc
- Q.9 Which of the following is the purest form of iron?
 a) Wrought Iron b) Cast Iron
 c) Mild Steel d) High carbon steel
- Q.10 When paint is applied in three coats, the first coat is known as _____.
 a) Finishing coat b) Priming coat
 c) Under coat d) Stopping

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Glass becomes hard on heating. (True/False)
- Q.12 Mangalore tiles are _____ in color. (Blue/Red)
- Q.13 The _____ mortar can settle under water. (Pozzolana/Lime)
- Q.14 The size of moulds should be kept smaller than the fully burnt bricks. (True/False)

- Q.15 Timber should be light weight. (True/False)
- Q.16 Plastics are light, strong and durable. (True/False).
- Q.17 _____ bolts is fixed to the inside of the door. (Latch/Aldrop).
- Q.18 The inner annual rings surrounding the central portion or core of a tree is _____ (heart wood/sapwood).
- Q.19 In a mortar, the binding material is _____ (Sand/Cement)
- Q.20 Unburnt bricks are also called _____ (Kucha bricks/Dry Bricks)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Define and explain the workability of concrete.
- Q.22 What is glass. Give its types and uses.
- Q.23 What is varnish and why is it used?
- Q.24 How would you distinguish first and second class bricks?
- Q.25 What are the constituents of cement and explain them.
- Q.26 Name three types of building hardware and write their uses.
- Q.27 What are the special properties of plastics that make