

- Q.26 Explain the use and property of laminated glass and tempered glass.
- Q.27 Differentiate between Portland Cement and white cement.
- Q.28 Write short note on Door Handles with neat sketch?
- Q.29 List out different type of paint.
- Q.30 What do you mean by Aggregates?
- Q.31 How do you proceed to paint on an old work?
- Q.32 Write the classification of lime and give its five uses?
- Q.33 What is meant by glazing? Why is it important in clay products?
- Q.34 Differentiate between paints and varnishes
- Q.35 Give the classification and properties of different types of lime

SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 What does seasoning of timber mean? What are its objectives? Compare natural seasoning with kiln seasoning.
- Q.37 Enumerate the use of plastics and their applications in the building Industry.
- Q.38 What do you mean by Aggregates? State any five differences between coarse aggregates and fine aggregates?

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1st Sem / Architecture **Subject:- Building Materials - I**

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Laterite is a _____ Rock
 a) Calcareous b) argillaceous
 c) Volcanic d) siliceous
- Q.2 The plastics are _____
 a) Conductors
 b) Semi conductors
 c) Conducts at above room temperature only
 d) Insulators
- Q.3 Which of the following is a good fire-resistant stone?
 a) Clay b) Granite
 c) Quartz d) Limestone
- Q.4 Refractory bricks resists
 a) High temperature b) Chemical reaction
 c) Dampness d) None of these
- Q.5 Toughness of stone aggregate is determined by
 a) Impact test b) Hardness test
 c) Ultimate strength d) Endurance test

- Q.6 Workability of concrete is measured by
 a) Vicat apparatus test
 b) Slump test
 c) Minimum void method
 d) Talbot Richard test
- Q.7 Timbers with _____ annular rings are generally the strongest.
 a) Narrow b) Wide
 c) Distinct d) Indistinct
- Q.8 What is the most dominant constituent of cement?
 a) Silica b) Lime
 c) Magnesia d) Alumina
- Q.9 Polyvinyl Chloride is a
 a) Thermosetting plastic
 b) Elasto plastic material
 c) Rigid plastic
 d) Thermoplastic plastic
- Q.10 In mild steel, the iron content is about
 a) 50% b) 80%
 c) 90% d) 99%

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Wet cement can cause severe skin burns if not washed off with water immediately. (True/False)
- Q.12 The process of heating to redness in the presence of air is called _____ (Hydraulicity/Calcination)

- Q.13 Lime replaces the use of cement by 50% in lime based stone masonry.(True/False)
- Q.14 The inner annual rings surrounding the central portion or core of a tree is _____ (Heart wood/ Sap wood)
- Q.15 Glass is not a single compound. (True/False)
- Q.16 Timber which is mostly used for engineering purposes belongs to endogenous trees. (True/False)
- Q.17 In paints the pigment is responsible for _____ (Colour/Durability)
- Q.18 For road pavements, the cement generally used, is _____ (rapid hardening cement/ low heat cement)
- Q.19 The acid test used for testing building stones cannot be applied to limestones.(True/False)
- Q.20 Which is the best wood for door and Window purposes? (Teak/Deodar)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 What is mortar? Explain function and qualities of good mortar.
- Q.22 Define the difference between hard and soft wood?
- Q.23 Explain the various ferrous metals and alloys used in building construction.
- Q.24 Define natural bed of a stone and discuss its importance.
- Q.25 What is plywood and where it is used with advantages?