

Q.21 Explain the following:

- a) Insulating glass
- b) Glass blocks

Q.22 Draw a neat sketch of door frame.

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SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. $(2 \times 8 = 16)$

Q.23 What are the common timbers used in India? Explain each in detail with their uses.

Q.24 What is cement? How is the cement classified. Explain any two in detail.

Q.25 Draw a neat sketch of various types of hinges used for doors and window.

3rd Sem / Architectural Assistantship

Subject : Building Materials & Construction - II

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(6 \times 1 = 6)$

Q.1 Main Constituent of glass is _____.

- a) Silica
- b) Alumina
- c) Magnesia
- d) Sodium

Q.2 The purpose of seasoning of timber is to _____.

- a) Change the direction of grains
- b) Remove voids
- c) Reduce moisture content
- d) All of these

Q.3 Which chemical composition has highest content in ordinary Portland cement?

- a) Alumina
- b) Silica
- c) Lime
- d) Iron oxide

Q.4 Which compound gives the colour to the cement _____.

- a) Lime
- b) Silica
- c) Iron oxide
- d) Alumina

Q.5 Which of the following is/are basic building material?

- a) Wood
- b) Cement
- c) Brick
- d) All of the mentioned

Q.6 The thickness of lamin boards vary from.

- a) 5 to 12 mm
- b) 12 to 15 mm
- c) 12 to 25 mm
- d) 25 to 30 mm

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Define fine aggregates.

Q.8 Define Cement.

Q.9 Lime occurs in a free state in nature.

- a) True
- b) False

Q.10 Full form of RCC

Q.11 What are the grades of ordinary Portland cement?

Q.12 Annual rings represent _____ of the tree.

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 What precautions should be taken while storage of cement?

Q.14 Explain the compaction of Concrete.

Q.15 What are the characteristics of good timber?

Q.16 Differentiate between fat lime and hydraulic lime.

Q.17 What is cement? What are the various uses of cement.

Q.18 What is Reinforced Cement Concrete? Write any four properties of it.

Q.19 Draw near sketches of any two

- a) Mortise lock
- b) Cupboard lock
- c) Lever Handle
- d) Aldrop bolt

Q.20 Differentiate between mortar and concrete.