

**3rd Sem. /Arch. Assistantship**  
**Subject : Building Material & Construction-II**

Time : 3 Hrs. M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 What is the initial setting time of cement?  
a) 1 hour                  b) 30 minutes  
c) 15 minutes              d) 30 hours
- Q.2 What is the meaning of soundness of cement ?  
a) Ability to flow when mixed  
b) Ability to make ringing noise when struck  
c) Ability to form strong and sound structure  
d) Ability to retain volume after setting
- Q.3 A slump test for concrete is carried out, to determine.  
a) Strength                b) Durability  
c) Workability            d) Water content
- Q.4 How should be the colour of good quality timber ?  
a) Light                    b) Gradient  
c) Dark                    d) Brown

- Q.5 Glass is a mixture of:
- Non-metallic silicates
  - Metallic silicates
  - Metallic acetates
  - Non-metallic acetates
- Q.6 The setting speed of mortar can be increased using:
- Lime
  - Sulphur
  - Pozzolana
  - Gypsum

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory.  $(6 \times 1 = 6)$

- Q.7 Define portland cement
- Q.8 Define flush door.
- Q.9 Define M15
- Q.10 Define workability of concrete.
- Q.11 List the two manufacture of glass
- Q.12 What is Toughened glass.

### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions.  $(8 \times 4 = 32)$

- Q.13 What are the types of cement and their uses.
- Q.14 What are setting and hardening of cement.

- Q.15 What are the differences of Coarse Aggregates and Fine Aggregates.
- Q.16 Explains Defects in timber.
- Q.17 Write a short note on hard wood and soft wood.
- Q.18 Explain seasoning of the timber.
- Q.19 Explain structural glazing and their uses in the modern building.
- Q.20 Write a short note on fire door.
- Q.21 What are the different material used for windows.
- Q.22 Defines cement mortar and also explain their uses.

### SECTION-D

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

- Q.23 Write the Uses and classification of lime.
- Q.24 Explain the different methods of seasoning and presserervation/ preservative materials of timber.
- Q.25 How glass effect the modern building and explain the applications of glass in it.