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220251

**5th Sem / Architectural Assistantship**  
**Subject : Building Material & Construction IV**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note: Multiple Choice Questions. All Questions are compulsory. (6x1=6)**

- Q.1 For the manufacture of plywood, veneers are placed so that grains of adjacent veneers
- a) Run at right angles      b) Parallel
  - c) Inclined at  $45^0$               d) Inclined at  $60^0$
- Q.2 Fly ash is by-product from the combustion of
- a) Fine aggregate              b) Cement
  - c) Coal                              d) All of above
- Q.3 Fibre boards can be
- a) Distempered
  - b) Painted
  - c) Painted and distempered
  - d) Used for furniture
- Q.4 Plaster of Paris contained about
- a) 3% Water                      b) 6% Water
  - c) 8% Water                      d) 10% Water

- Q.5 Hard boards are example of  
 a) Plywood                      b) Fibre board  
 c) Particle board              d) Chip board
- Q.6 The material recommended for roofing is  
 a) Linoleum                      b) Asbestos  
 c) Thermocole                  d) Geosynthetic

### Section-B

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

- Q.7 Define Mangalore tile.  
 Q.8 Define grade of plywood.  
 Q.9 Define Shingles.  
 Q.10 What is thermocole?  
 Q.11 What is Hardeners?  
 Q.12 Write types of W.C.

### Section-C

**Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)**

- Q.13 Write four material used for suspended ceiling and also their manufacturing brands & available sizes?  
 Q.14 Define hard board and fibre board and their uses.  
 Q.15 Define Fly ash and also explain their uses.

- Q.16 Write two manufacturing brands of the G I Sheets and available size in the market.  
 Q.17 What are the advantages gypsum board ceiling over plaster of paris.  
 Q.18 What are the difference between admixtures and additives.  
 Q.19 Define two sanitary fittings with sketches specifying their sizes.  
 Q.20 How building material & construction technique affect the building.  
 Q.21 What are different types of roofing tile available in market. Explain with sketch.  
 Q.22 Define Veneer and also explain their uses.

### Section-D

**Note: Long answer questions. Attempt any two question out of three Questions. (2x8=16)**

- Q.23 What is plywood and where is it used with Advantage? State its uses in modern buildings.  
 Q.24 Draw neat sketches for North light truss along with constructional detail.  
 Q.25 Draw a layout plan for kitchens of the residential showing the placement & fixing detail of each fixture with proper dimensions? Assume the size of kitchen.