



**SURYA POLYTECHNIC COLLEGE**  
**Surya Nagar, Vikiravandi, Villupuram - 605 652**

**DEPARTMENT OF CIVIL ENGINEERING – II YEAR**  
**MODEL EXAM - I**

**Subject : Building Planning And Drawing.**

**QP Code : 340**

**Time : 3 Hours**

**Sub Code : 4010340**

**Max. Marks : 100**

*[ N.B:- (1) Answer all questions under PART – A in the drawing sheet supplied.*

*(2) Answer the question PART – B in the drawing sheet supplied.*

*(3) The sketch under PART – A should be drawn using pencil and drawing instruments, not necessarily to scale.*

*(4) Any data, not given may be assumed suitably and should be indicated in the drawing. ]*

**PART – A**

**(2 X 4 = 8)**

**I. Answer the following:**

(i) Write the Abbreviation of AGG, BM, CH, CEM.

(ii) What are the types of Public Building?

**PART – B**

**(1 X 12 = 12)**

**II. Sketch the elevation of a fully panelled Single leaf door of size 1200 mm × 2100 mm and also draw the sectional plan. Assume any other data necessary.**

**PART – C**

**(1 X 80 = 80)**

**III. The Sketch shows the line plan of “ A Small work shop with north light steel roof truss over R.C.C Columns “.**

**1. Foundation : -**

The foundation for all main walls and verandah will be in C.C. 1:4:8 mix, 2000 x 2000 wide 150 thick laid at 2350 below G.L and R.C.C. 1:1.5:3 footing size 2000 x 2000 wide 700 thick. The R.C.C. Column 300 x 300 wide and earth beam size 300 x 300.

**2. Basement : -**

R.C.C. column size is 300 x 300, 600 thick and the basement will be in brickwork in C.M. 1:5, 600 height above ground level for all main walls and is filled with clean river sand to a depth of 450. A D.P.C. in C.M. 1:3, 20 thick will be provided for all walls at basement level.

**4. Superstructure : -**

All walls will be in brickwork in C.M. 1:5, using first class bricks, 200 thick. The height of all ground floor walls will be 3500 above floor level. All the walls including basement will be plastered smooth with C.M. 1:4 for 12.5 thick. R.C.C Column 300 x 300 wide and 3500 high ( including lintel ).

**5. Roofing : -**

The roofing will be of A.C. sheet laid on steel truss as designed. The trusses will be spaced @ 3000 C/c. They are 4 bays. Eaves projection will be 450 be around the outer face of wall.

**6.. Doors, Windows etc.,**

RS – Rolling Shutter - 3000 x 2500

W - Steel Window - 2000 x 1500

### 7.. Flooring :-

The flooring will be in C.M. 1:4:8, 130 thick, plastered smooth with C.M. 1:3, 20 thick for all the portions.

### 8.. Ramp :-

The Ramp will be in 4000 x 2000 and C.C. 1:4:8, 150 thick.

Note : \* Any dimensions found necessary may be assumed suitably making clear indications of the same

- ❖ All dimensions indicated are in millimeters
- ❖ Plan
- ❖ Front Elevation
- ❖ Sectional elevation on 'AB'

