

735/3
BUILDING DRAWING
PAPER 3
JULY/AUGUST
3HRS

TECHNICAL DRAWING DEPARTMENT
SENIOR 4 INTERNAL MOCK 2019
BUILDING DRAWING
PAPER 3
2 HRS

INSTRUCTIONS

- Attempt all questions
- Unless otherwise stated, all dimensions are in millimeters
- Where dimensions are not given, use your discretion and experience to choose suitable ones

SECTION 1

Using the drawing in figure 1 and the specifications below, draw a proportional free hand pictorial sketch of the building , with corner B in the fore ground. (25mks)

Specifications:

Foundation: Concrete strip foundation 750mm by 250mm and 1000mm below the ground level.

Floor : 100mm thick concrete slab bed laid over 150mm thick hardcore and finished with 50mm thick wood floor strips on 35 mm thick cement and sand screed.

Verandah: Is finished with cement and sand screed

Walls: All walls are 230mm thick and 3000 mm high as measured from screed to wall plate. Both sides of walls are plastered.

Roof: Pitched at 30° covered with corrugated iron sheets.

Hipped at bedroom and living room ends.

Gable at kitchen end.

Varandah, garage and bathrooms covered with reinforced concrete slabs of 100mm thick, at 2500 mm height measured from floor screed.

Rafters	100mm X 50mm
Purlins	75mm X 50mm
Tie beam	150mm X 50mm
Struts	100mm X 50mm
Wall plate	100mm X 75mm

Windows: W1: 600mm X 600mm louvered

W2 : 1400mm wide X 1200mm high louvered

W3: 1200mm wide X 600mm high pompeii

Doors: D1 : 2100mmhigh X 900mm wide flush door

D2: 2100mm X 1000mm framed, braced and battened door

D3: 2100mm X 1500mm metallic casement door

D4: 2100mm X 2750mm wooden framed door

SECTION II

Use the given specifications and the drawing to answer the following questions

1. To scale 1:75, draw the plan of the building and show the necessary symbols for the
 - (i) Sanitary fittings
 - (ii) Doors
 - (iii) Windows(27mks)
2. To scale 1:75, draw the vertical section on cutting plane J-J showing the constructional details. Neatly label the roof and floor members . (30mks)
3. To scale 1:10, draw the back elevation of D2. (12mks)
4. At the bottom right hand corner of your answer sheet draw a title block and print your name, index number, scales, examination paper code and date. (8mks)

END