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735/3 S.4 TECHNICAL DRAWING MOCK EXAMINATION 2010 3 HOURS.

INSTRUCTIONS:

- -Answer all the questions
- -Accuracy and good draughtsmanship are essential
- -Where dimension are not given, choose suitable specifications.

Figure 1 shows the ground plan of a residential house not drawn to scale.

SPECIFICATIONS:

Foundation: Common strip foundation 675x225 laid 800mm below ground

level.

Wall: External and internal are 225 thick. Walls for the main house are

3300 high from floor level to underside of the wall plate. Kitchen

walls are 2500 high.

Floor: Solid floor with 25mm sand and cement screed laid over 100 thick

concrete and 150 thick hard core.

Roof: Timber structured roof gabled at garage end and hipped at bed

room end and pitched at 30°. Kitchen has a lean to roof pitched at

22°. The two roofs are covered with corrugated iron sheets.

100x50 rafters. 150x50 tie beam 75x50 purlins

200x20 fascia and barge boards.

Doors: D₁ 2400 x2100 double swing metallic door.

D₂ 1000 x2100 framed, ledged, braced and battened

D₃ 1500 x2100 double swing metallic door.

D₄ 900 x 2100 framed, ledged, braced and battened

Windows: W₁ 800 x 800 metallic casement

W₂ 900 x 1200 louvered in wooden frame W₃ 1200 x 1200 louvered in wooden frame.

W₄ 1500 x 800 Pompeii

Eaves: Open eaves projected at 500mm.

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SECTION I:

Draw in good proportion a free hand pictorial sketch of the house in fig I making corner
S the lowest point.

SECTION II:

- 2. Using the given specifications and the drawing in figure I, draw to scale 1:50;
 - (a). A complete plan showing the suitable symbols for windows, doors in their correct position and sanitary fittings.
 - (b). Sectional elevation through cutting plane M-M to show all details from the ridge to the foundation. Label members that make up the floor and roof.
- 3. (a). Using scale 1:10 draw the vertical section through door 4 including the door frame.
 - (b). At the bottom right hand corner draw a title block in it print your name, index number, paper code, title scale and date.