



CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

Technical and Vocational Education Examination

JUNE XXXX

INTERMEDIATE LEVEL

Subject Title	BUILDING CONSTRUCTION DRAWING
Subject Code No.	5225
Paper No.	TWO

Duration: THREE HOURS

Answer two (2) questions. Candidates should **compulsorily answer section A and any other question in section B.**

All questions carry equal marks.

The total mark for this paper is 100 and constitutes 60% of the total marks for Building Construction Drawing.

You are allowed to use drawing instruments and non programmable calculators.

You are reminded of the necessity to respect drawing norms and orderly presentation in your answers.

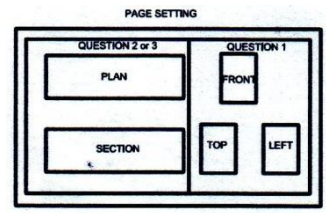
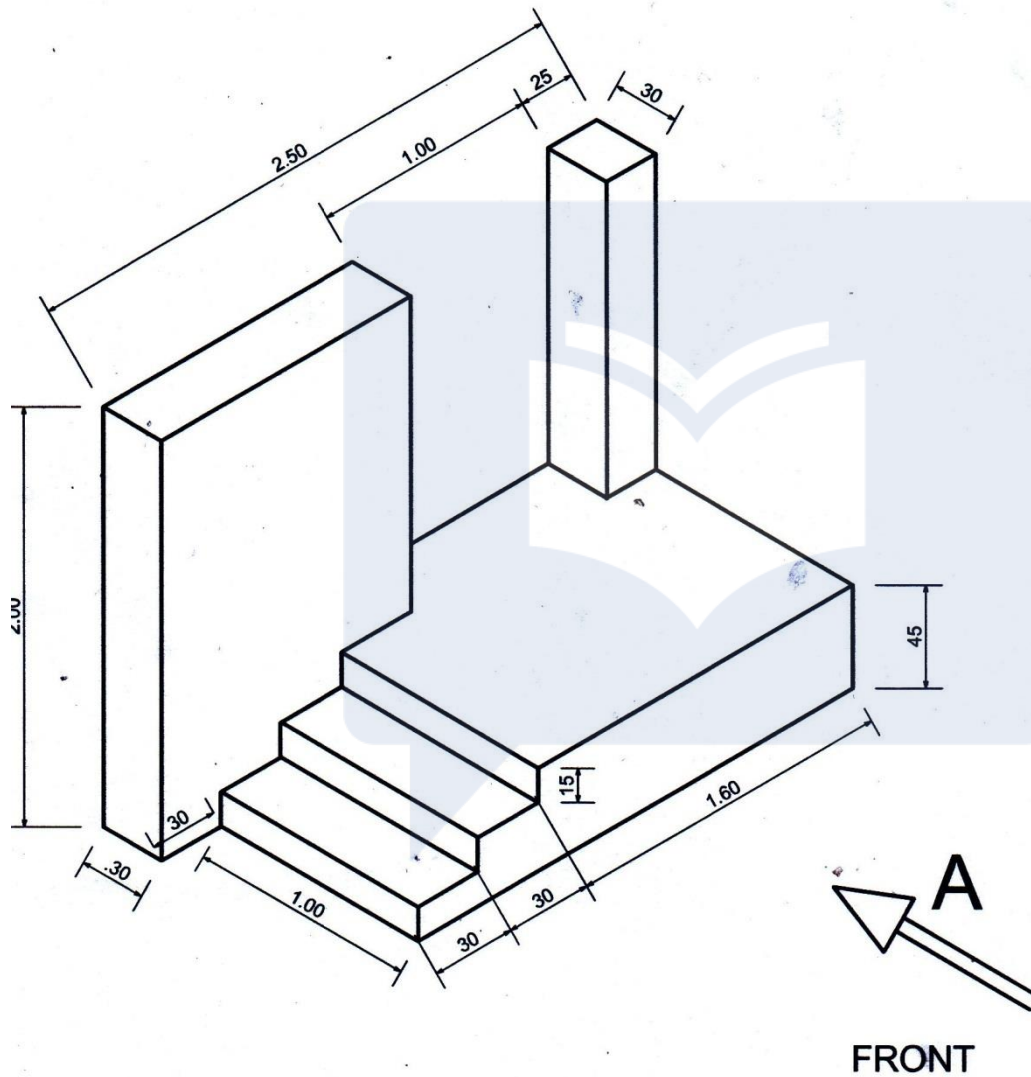
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SECTION A
ANSWER (ONE) 1 QUESTION

QUESTION I:..... (50 marks)

DESCRIPTION OF THE STUDY

The drawing in figure 1 is an entrance into a make shift podium. All the information are seen on the drawing.



DOOR OPENING

Figure 1

WORK REQUIRED

On an A3 format paper placed horizontally, draw to scale 1:25 the following:

- I-1 The front elevation of the bay..... (16 marks)
- I-2 The left elevation..... (16 marks)
- I-3 The top elevation..... (18 marks)

SECTION B

ANSWER ONLY ONE QUESTION IN THIS SECTION.

QUESTION II.....(50 marks)

DESCRIPTION OF THE STUDY

The drawing in figure 2 represents a ground plan to be built in a student’s residential area. It is made up of a parlour, bedroom, kitchen, toilet, circulation and a veranda.

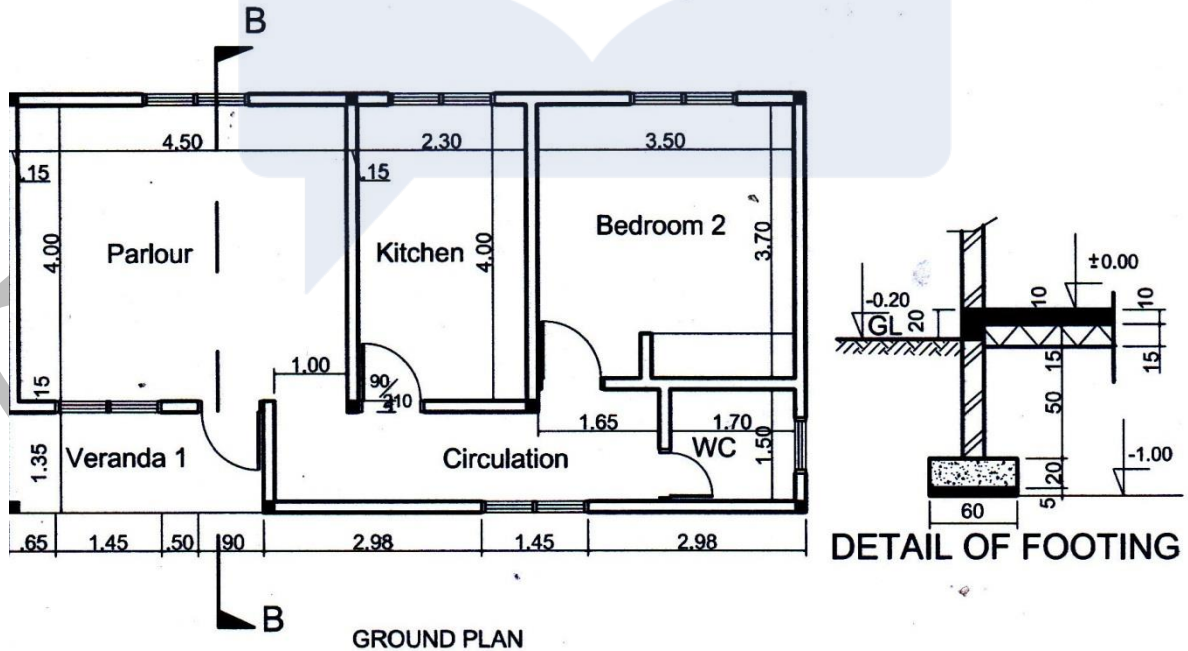


Figure 2

Turn Over

RELATED TECHNICAL INFORMATION

- DOORS: Parlour, room and kitchen doors have width 90cm and height 2.10m
- Toilet door has width 70cm and height 2.10m
- Windows; Parlour, room and kitchen have dimension 1.45x1.20m
- Toilet has a window of 75x75cm
- Foundation and ground floor: see attached detail.
- All the walls are chained with a tie beam of 15x20cm and at a height of 3m.

WORK REQUIRED

On the same A3 paper placed horizontally and to scale 1:50, draw the following

- II-1 The complete ground plan, respecting line quality and showing all the dimensions..... (25 marks)
- I- 2 Section A-A from the foundation level to the tie beam level..... (25 marks)

QUESTION III..... (50 marks)

DESCRIPTION OF THE STUDY

The drawing in figure 3 represents a form work plan of a two floor storey building. It is made up of beams, pillars, composite slab, isolated footings, and two spaces reserved for stair case and sanitary fittings.

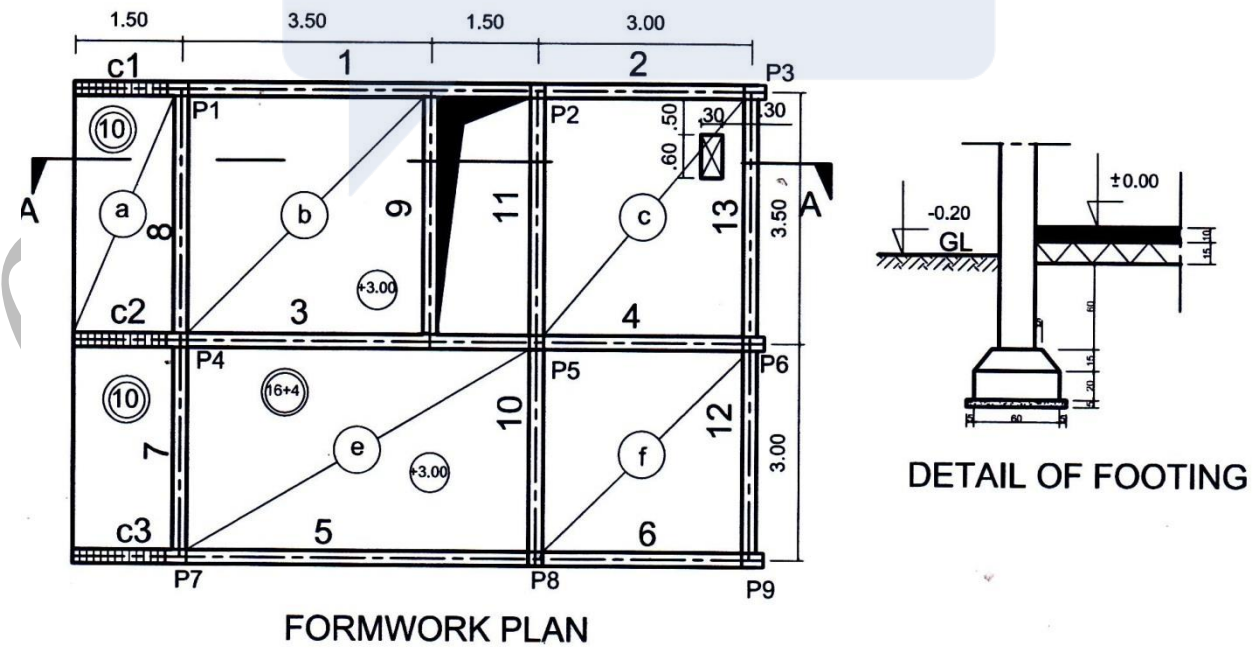


Figure 3

RELATED TECHNICAL INFORMATION:

- **Beams:** Beams on the lines 1, 2, 5, 6, 7, 8, 12, and 13 measure 20x60cm,

Beams 3, and 4 measure 20x50cm

Beams 10, and 11 measure 20x40cm

Beam 9 measures 15x30cm

Beam 9 measures 15x30cm

Cantilever beams (C1, C2 and C3) measures 20x40-10 cm

- Pillars: All the pillars have a cross section of 20x40cm, except for pillar 2, 5 and 8 which measures 20x20cm

- Footing: isolated square. See detail attached.

- Information not given is left at the candidates' initiative.

WORK REQUIRED

- On the same A3 paper used for question 1 and placed horizontally, draw to scale 1:50 the following:

III- 1 The complete form work plan respecting line types. Show all dimensions..... (25 marks)

III- 2 Section A-A from the foundation level to +3.00m respecting line types, show all dimensions..... (25 marks)