

Construction Drawing
F4BA-6038

CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD

Probatoire Technique Examination

JUNE 2016

Date: Wednesday 25-05-2016

Series/ Specialties	Civil Engineering (Building Construction Option) (F4BA)
Subject Title	Construction Drawing
Subject Code No.	F4BA-6038
Type of Exam	WRITTEN
Weighting (Coef.)	SEE INSIDE

Duration: 8:00 - 12:00

General Instructions

*You are reminded of the necessity for good English and orderly presentation of your material.
Where calculations are involved show your working, giving your answer at each stage.*

Content: QUESTIONS

Specific Instructions

Turn over

CONSTRUCTION DRAWING

- No documents are allowed except those given to the candidates by the examiners
- Candidates can use non programmable scientific calculators
- Before you start work, make sure that you have from sheet 1/3 to sheet 3/3

STUDY OF BASEMENT + GROUND FLOOR

DESCRIPTION

The drawing below represents the foundation and formwork plans of a basement + ground floor building.

- The ground beams are of section 20x30cm.
- The floor is 10cm of solid concrete on 15cm hard core.
- Footings are at a height of 1.00m from floor level to base of lean concrete.
- The pillars are 20x20cm.
- The retaining wall is of stone masonry and thickness 35cm, it is chained at 1.5m with a beam of 20 x20cm before the final chaining of 20x40cm at ±0.00m.
- The upper beams are of section 20x40cm.
- The beam at the basement veranda has no pillars and footings
- The stair case has risers of 15cm and goings 25cm.
- The waist is of thickness 12cm.
- Any other information is at the discretion of the student.

Work required:

On format A3 vertical

1. Reproduce the formwork plan of the basement. (6mrks)
2. Draw the section A –A. (7mrks)
3. Draw the section B-B. (7mrks)

N.B. heights for the section are limited between -3.90m and +50cm below and above the ground.

