REPUBLIC OF CAMEROON

Peace – Work – Fatherland

MINESEC / DECC

CAP INDUSTRIAL

Session: 20 15

Specialty: Building construction

Duration: 4 Hours Coefficient. :4 Written paper

DRAWING

INSTRUCTIONS TO THE CANDIDATES

- NO DOCUMENTS ARE ALLOWED EXCEPT THOSE GIVEN TO THE CANDIDATE BY THE EXAMINERS
 - BEFORE YOU START WORK, MAKE SURE THAT YOU HAVE FROM SHEET 1/2 TO SHEET 2/2
 - NON PROGRAMMABLE SCIENTIFIC CALCULATORS ARE AUTHORISED
 - THIS PAPER IS EVALUATED ON 20 MARKS

SUMMARY DESCRIPTION OF THE PROJECT.

The drawing on page 2 / 2 is that of formwork plan of the first floor of a residential building. It has a half turn stairway.

RELATED TECHNIC NFORMATION

STAIRWAY:

Storey height 306 cm

Tread length 100 cm

Length of intermediate landing is 120 cm

Number of steps: 17 (take 2 h+g =64)

FLOOR: **]-**.

PILLAR:

Pillar: P₁,P₂,P₃,P₄,P₅,P₆,P₇,P₁₂,P₁₆,P₁₇ have a compron section of 15 X 30 cm

Pillar: P9 has a section of 15 x 20 cm

Pillar: P₁₃, P₁₄, P₁₅ have a diameter of 30 cm

Pillar: P₈, P₁₀, P₁₁ have a variable section (see details)

BEAMS:

The beams and their sections are: 7 (15 x 50) cm, 4 (15 x 30) cm, 2 (15 x 20) cm

The others have a section of 15 x 40 cm

SOLID FLOOR:

The slab e is a solid slab with a thickness 15 cm and its finish level is at ₩306 cm;

The other floors are hollow with a thickness of 16+4 cm and prefabricated fib beams with finish level at +306 cm.

Π÷ WORK REQUIRED

7.	Define: Formwork plan	2 marks
2.	Determine the height at the second going	2 marks
3.	On An A3 paper and to a scale 1 /50 (0,02), draw	

The Formwork plan 8 marks Dimensioning 6 marks Presentation

2 marks

