| $\underline{\text { PROGRAM }}$ | $:$ BACHELOR'S DEGREE IN CONSTRUCTION |
| :--- | :--- |
| $\underline{\text { SUBJECT }}$ | $:$ CONSTRUCTION TECHNOLOGY |
| $\underline{\text { CODE }}$ | $:$ CONTED1 |
| $\underline{\text { DATE }}$ | $:$ SUMMER EXAMINATION 2019 |
|  | $:($ SESSION 1) 08:30-11:30 NOVEMBER |
| $\underline{\text { DURATION }}$ | $: \mathbf{4 0 : 6 0}$ |
| $\underline{\text { WEIGHT }}$ | $: 70$ |
| $\underline{\text { TOTAL MARKS }}$ |  |


| ASSESOR | $:$ MR C.E EMERE |
| :--- | :--- |
| MODERATOR | $:$ MRS Z. MOHAMMED |
| NUMBER OF PAGES | $: 3$ PAGES |

REQUIREMENTS : DRAWING MATERIALS

INSTRUCTIONS TO CANDIDATES:
PLEASE ANSWER ALL THE QUESTIONS. PLEASE WRITE CLEARLY AND LEGIBLY
ANSWERS SHOULD BE NUMBERED AS PER THE QUESTIONS.

## Question $1.0[10]$

Draw and dimension the front view (A) and side view (B) of the following diagram below in scale 1:1.
[10 Marks]


## Question 2.0 [10]

2.1 Define the following : Plan [2], Section [2], and Elevation [2]
2.2 What is the usual width of the passage of a building according to building regulation? [2]
2.3 What is the minimum floor level height above ground level according to the building regulation?
$\qquad$

## Question $3.0[10]$

Draw to a scale 1:10, the alternate plan courses of a one- brick corner built in Flemish bond.
Draw stopped ends on both sides, 880 mm from the corner.

## Question 4.0 [15]

4.1 State the 8 functions of external walls.
4.2 Mention 4 advantages of cavity walls
4.3 Mention 3 advantages of cavity walls

## Question 5.0 [15]

5.1 States the requirements of foundation
5.2 What does the term bearing capacity mean?
5.2 Draw to a scale 1: 10, a longitudinal vertical section of a stepped foundation showing two complete steps of the foundation. Specifications:

- The foundation is 275 thick and the steps are 1200 long.
- Insert all the mentioned dimensions to show the minimum lap of the step clearly, according to regulations.

Print the full title (highlighted in the first sentence of this question) and scale, centrally below the drawing, in 5 mm high letters.

## Question $6[10]$

Draw to a scale 1:10 the elevation of a profile board suitable to be used to mark off the wall and foundation given in the sketch below.


The profile board consists of a 100x22 SA Pine strip attached to $38 \times 38$ sharpened timber supports. The profile board is 1000 mm long and the supports are 700 mm long. Clearly dimension the distances between the nails in the profile board and fully annotate the parts of the profile board.

