

THE PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY
THE SCHOOL OF ARCHITECTURE AND CONSTRUCTION MANAGEMENT
FIRST SEMESTER EXAMINATION
SECOND YEAR BACHELOR IN CONSTRUCTION MANAGEMENT
CM210 – QUANTITIES ANS ESTIMATING

Room: ST1
Date: Monday 27th May, 2024
DURATION: 3 Hours
Time: 8:20 – 11:00 am

Instructions to Candidates

1. You have 10 minutes to read the paper. Do not begin writing during this time.
2. Fill in the Attendance Slip with your name and student I.D. number now
3. There are three (3) pages to this exam paper including the cover page.
4. **There are Two (2) Parts** to this exam and you are to **answer all questions**.
5. ALL ANSWERS MUST BE WRITTEN IN THE ANSWER BOOK (S) PROVIDED
6. Each question must be answered starting on a New Page.
7. Notes and Textbooks are not allowed in the Test Room.
Only materials allowed and to be brought in by students are;
 - Calculators
 - Pens, biros and pencils

WRITE YOUR NAME AND IDENTIFICATION NUMBER CLEARLY ON THE FRONT PAGE. DO IT NOW!

TOTAL MARKS = 100 MARKS

Question 1**(20marks)**

Discuss ten (10) roles and responsibilities of a consulting Quantity Surveyor

Question 2**(15marks)**

Discuss any five (5) variety of Bill of Quantities format

Question 3**(15marks)**

Explain the significance of abbreviations in writing descriptions of taking off materials and describe the following abbreviation below:

- | | |
|---------------|----------|
| a) O.T.R | e) c.p |
| b) P.C | f) Galvd |
| c) ANZMM 2018 | g) Ditto |
| d) F.F.L | h) E.o |

Question 4**(10marks)**

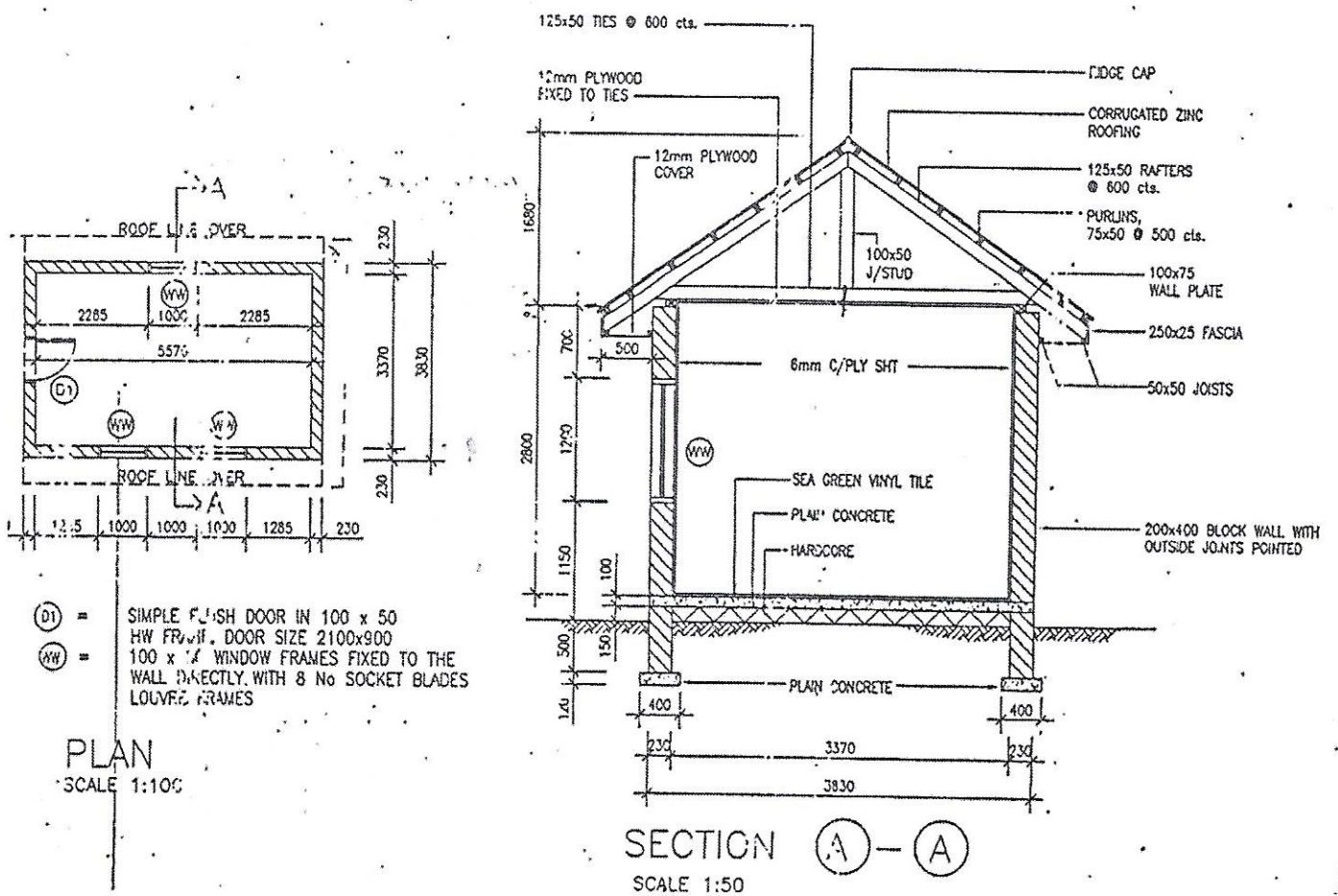
Describe billing processes and the two (2) billing approaches used

Question 5

(40marks)

Refer to the drawings provided and show take - off calculation on answer sheet provided

- a) Measure and extend the perimeter, area and volume of a concrete floor slab
- b) Calculate the amount of earth to be excavated for strip footing.
- c) Calculate the number of standard full blocks (400mm x 200mm) needed in foundation.



End of Exam