

THE PAPUA NEW GUINEA UNIVERSITY OF TECHNOLOGY  
THE SCHOOL OF ARCHITECTURE AND CONSTRUCTION MANAGEMENT  
FIRST SEMESTER EXAMINATION  
FOURTH YEAR BACHELOR IN CONSTRUCTION MANAGEMENT  
CM410 – PROJECT DYNAMICS I

Room: L2  
Date: Monday 27<sup>th</sup> May, 2024  
DURATION: 3 Hours  
Time: 12:50 – 4:00 pm

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 two (2) pages to this exam paper including the cover page.
4. **There are Seven (7) Questions** 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)

Explain what construction planning is and discuss the six (6) steps to develop a construction plan

Question 2 (20marks)

Explain what a construction site plan is, and discuss what a comprehensive site plan must define.

Question 3 (20marks)

Explain what excavation is and discuss the seven (7) reasons excavations are carried out.

Question 4 (10marks)

Explain what a constricted site is, and how you would plan the operations of a constricted site.

Question 5 (10marks)

Explain what sort of materials can be excavated from construction sites

Question 6 (10marks)

Discuss site access considerations, and show a typical detailed Construction Site Layout Access.

Question 7 (10marks)

Explain what a tower crane is, and discuss reasons tower crane is used on site.

End of Exam