Centres: Main Campus

COURSE CODE: PWE 3411
COURSE TITLE: CONSTRUCTION MANAGEMENT I
EXAM VENUE: STREAM: PUBLIC HEALTH
DATE: EXAM SESSION:
TIME: 2 HOURS

Instructions:

1. Answer question 1 ( compulsory ) and ANY other 2 questions.
2. Candidates are advised not to write on the question paper.
3. Candidates must hand in their answer booklets to the invigilator while in the examination room.
**Question one**

a) Define dimensional co-ordination. 
(2 marks)

b) Explain the main principle behind dimensional co-ordination. 
(2 marks)

c) Outline any TWO advantages of dimensional co-ordination 
(4 marks)

d) Discuss any FOUR societal requirement of a building. 
(4 marks)

e) Explain the following terms. 
   i) Substructure 
   ii) Super structure. 
(4 marks)

f) Explain the role of the following in a building team 
   i) Clerks of works 
   ii) Contractor. 
(5 marks)

g) Outline the tasks to be performed by a builder once he/she has the 
   possession of the site. 
(9 marks)

**Question 2**

a) Define sustainable development. 
(2 marks)

b) Explain the primary pillars of sustainable construction in development. 
(4 marks)

c) Outline FOUR advantages of sustainable development in the construction industry. 
(4 marks)

d) What are the statutory instruments? And how are they prepared. 
(2 marks)

e) Explain the relationship between construction and the environment. 
(8 marks)
Question three

a) Differentiate between the built environment and the general environment. (4 marks)

b) Explain any TWO disadvantages of civil construction to the environment, stating the need for environmental impact assessment before commencement of a construction project. (8 marks)

c) Explain any FOUR issues sustainable development should address. (8 marks)

Question four

a) With the aid of sketches outline the process of cement manufacture. (8 marks)

b) Define the term timber conversion. (2 marks)

c) List any TWO defects found in timber. (2 marks)

d) Outline any FOUR objectives of monitoring and evaluation in construction project. (8 marks)

Question five

a) Outline any FOUR advantages of having a construction plant on site. (4 marks)

b) Explain any THREE importance of using concrete mixing plant on site as opposed to hand mixing. (6 marks)

c) Discuss how well one would reclaim an abandoned quarry site. (4 marks)

d) Sketch and label concrete mixing plant. (6 marks)