

**SIR ARTUR LEWIS COMMUNITY COLLEGE
DIVISION OF TECHICAL EDUCATION AND MANAGEMENT STUDIES**

EXAMINATION SESSION : May 2013 Final Examination

TUTOR : S. E. Yarde

PROGRAMME TITLE : Carpentry and Joinery two

PROGRAMME CODE : 3BD-CAJ-CE

COURSE TITLE : Building Construction 111

COURSE CODE(S) : BLT 118-A

CLASS (ES) : Year Two

DATE : Thursday 9th May, 2013

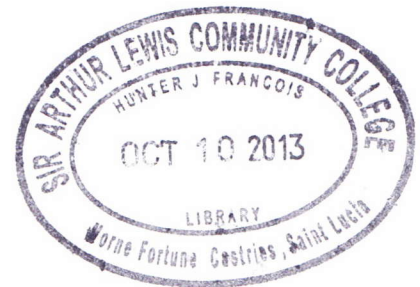
TIME : 9:00 am

DURATION : 3 Hours

ROOM : CEH-1R-02

INVIGILATORS : C.Gedeon, D.P-Alfred; A.Plummer;
C.Alexander

B26



INSTRUCTION:

- ◆ This examination comprises **Eight (8)** Question
- ◆ Answer any **FIVE (5)** questions.

Question 1:

- (a) Identify and write descriptive notes on four (4) different types of construction work. (12 marks)
 - (b) Identify three (3) types of buildings. (3 marks)
 - (c) How are buildings categorised? (5 marks)
- (20 marks)**

Question 2:

- (a) Write descriptive notes on the two (2) main parts of a building. (8 marks)
 - (b) Write descriptive notes on the four (4) different sections that make up the sub-structure and super-structure of a building. (12 marks)
- (20 marks)**

Question: 3

- (a) What is the function of a building? (5 marks)
 - (b) What are the requirements expected from a building? (7 marks)
 - (c) What are the basic concepts on which structure are developed? (8 marks)
- (20 marks)**

Question: 4

- (a) Differentiate between a skeleton structure and a solid construction. (6 marks)
 - (b) Identify three (3) advantages and three (3) disadvantages of skeleton structures over cross wall construction. (9 marks)
 - (c) What determine the spacing and the layout of frames construction? (5 marks)
- (20 marks)**

Question: 5

- (a) What are the advantages in setting out skeleton structures in a grid framework? (5 marks)
 - (b) What determines the spacing and layout of wall in cross wall construction? (5 marks)
 - (c) Identify five (5) methods used to stabilize the structure against lateral forces in cross wall construction. (10 marks)
- (20 marks)**

Question: 6

- (a) Differentiate between the following external finishes. (1) Facing (2) Cladding (3) Infilling panels. (6 marks)
 - (b) Identify three (3) types of building materials used to construct the following (1) Facing (2) Cladding (3) Infilling panels. (9 marks)
 - (c) Draw a section showing one of the materials identified to construct an Infilling panels. (5 marks)
- (20 marks)**

Question: 7

- (a) Define the term shoring. (3 marks)
 - (b) How is shoring classified? (4 marks)
 - (c) Draw a section through a raking shore. (5 marks)
 - (d) Identify four (4) methods of utilizing flying shores to building. (8 marks)
- (20 marks)**

Question: 8

- (a) Define the term underpinning. (4 marks)
 - (b) Give Three (3) reasons, why an existing building should be underpinned? (6 marks)
 - (c) What steps should be taken before underpinning? (5 marks)
 - (d) What precautions should be taken when underpinning commences? (5 marks)
- (20 marks)**