

## DIVISION OF TECHNICAL EDUCATION AND MANAGEMENT STUDIES

EXAMINATION SESSION : December 2007 Examination

TUTOR (S) : Mr. Nathan Hyacinth

PROGRAMME TITLE : Building Trades - Foundations

PROGRAMME CODE : 3BD-BTF-CE

COURSE TITLE : Carpentry Theory & Practice I

COURSE CODE : BTD103

CLASS (ES) : Year 1's

#031

DATE : 5<sup>th</sup> December, 2007

COMMENCEMENT TIME : 9:00 a.m.

DURATION : 2 Hours

INVIGILATOR (S) : Mr. John Joseph, Mr. James Joseph

ROOM (S) : CAJ R1

**INSTRUCTIONS:**

This Examination Paper consists of eight (8) questions. Answer *any six (6)* questions. Number your responses accurately.

- **Note:** Bags, books as well as writing paper not given by the invigilator should be deposited at the front of the examination room or as otherwise indicated.
- Students must sign **IN** and **OUT** on the exam class list

**GOOD LUCK!!**

1. a) Indicate the basic method of identifying the difference between Hardwoods and Softwoods. (5 marks)
- b) Name five (5) hardwoods and five (5) softwoods. (10 marks)
2. a) Define the term "Conversion" (5 marks)
- b) Indicate the methods of conversion. (10 marks)
3. a) Define Seasoning of timber. (5 marks)
- b) Name two methods and briefly describe one. (10 marks)
4. a) A timber sample weighs 45gm in its green state, and 36gm after being completely dried. Indicate the percentage of moisture content after drying. (6 marks)
- b) Explain with sketches, the following timber defects:
- i. Star shakes
  - ii. Heart shakes
  - iii. Short grain (9 marks)
5. a) Name two (2) basic joints used in the construction of paneled doors. (2 marks)
- b) State the difference between door frames and door linings. (8 marks)
- c) What is the purpose of the brace in the Ledge and Brace door? (5 marks)
6. a) What is a window? (3 marks)
- b) What is the primary function of a window? (6 marks)
- c) State three types of window openings. (6 marks)
7. a) Sketch a front view of a four light casement window and label four parts. (9 marks)
- b) List three ironmongery for windows and three for doors. (6 marks)
8. a) What is formwork? (3 marks)
- b) Indicate five (5) points to consider when designing and constructing formwork. (5 marks)
- c) Sketch a cross section of a formwork to a large beam cast in situ. (7 marks)



**END OF EXAMINATION**