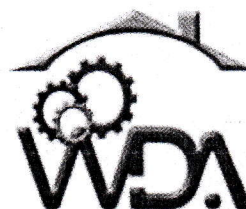


CST – Finishing, Fitting and  
Wood Treatment

**T052**

Thursday, 12/11/2015  
08:30 – 11:30

WORKFORCE DEVELOPMENT AUTHORITY



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**ADVANCED LEVEL NATIONAL EXAMINATIONS, 2015,  
TECHNICAL AND PROFESSIONAL TRADES**

**EXAM TITLE: Finishing, Fitting and Wood Treatment**

**OPTION: Construction (CST)**

**DURATION: 3hours**

**INSTRUCTIONS:**

The paper is composed of **three (3) Sections:**

Section **I:** Eleven (**11**) questions, all **Compulsory**. **55marks**

Section **II:** Five (5) questions, **Choose Three (3) only**. **30marks**

Section **III:** Three (3) questions, **Choose only One (1)**. **15marks**

**Every candidate is required to strictly obey the above instructions. Punishment measures will be applied to anyone who ignores these instructions.**

**Section I. Eleven (11) Compulsory questions. 55marks**

01. What is Wood treatment? **2marks**
02. Explain how plywood is made. **3marks**
03. State clearly six (6) reasons for timber seasoning. **6marks**
04. List down six (6) types of partition walls used in construction industry. **6marks**
05. Name six (6) methods of pointing used as a finishing work on brickworks. **6marks**
06. Mention six (6) common defects found in Plastering. **6marks**
07. Give the names of eight (8) types of windows and eight (8) types of doors. **8marks**
08. Draw a section and a three dimension presentation of the following types of windows:  
i) Vertical pivoted window;  
ii) Horizontal pivoted window. **10marks**
09. What is scaffolding? **1mark**
10. Give another name given to a putlog scaffold. **1mark**
11. Sketch a clear section of a putlog scaffold and name 6 parts. **6marks**

**Section II. Answer any three (3) questions of your choice**

**(Do not choose more than three questions). 30marks**

12. Highlight clearly at least five (5) factors which should be considered to determine whether the use of preservative treated timber is required. **10marks**
13. What do you understand by the following characteristics of wood?  
a) Colour  
b) Grain  
c) Pores  
d) Hardness  
e) Strength **10marks**

14. In the designing of doors in construction technology, discuss in details the following performance standards which should be considered: **10marks**
- i. Weather-resistance
  - ii. Security
  - iii. Fire resistance
  - iv. Sound insulation
  - v. Privacy
  - vi. Operation
  - vii. Durability
  - viii. Purpose
  - ix. Location
  - x. Materials
15. Draw an overview of discharge of waste water from a house to a public sewer and show clearly the following parts as used in fitting:
- a) A sketch of two house floors outlined in three dimensions with a cable roof
  - b) Soil vent pipe
  - c) On first floor (a bath, a basin & a WC)
  - d) On ground floor (a sink, a WC & a basin)
  - e) A gully
  - f) A collection manhole next to the building
  - g) Drain connecting the system
  - h) Another manhole before joining the public sewer & a boundary line
  - i) Public sewer pipe. **10marks**
16. (a). Give two (2) other names given to an Independent Scaffold. **2marks**  
 (b). Sketch clearly an independent scaffold and name eight (8) parts. **8marks**

**Section III. Answer any one (1) question of your choice**

**(Do not choose more than one question). 15marks**

17. Discuss by mentioning at least five (5) points in describing each of the following methods of timber seasoning:
- a) Air seasoning
  - b) Kiln seasoning **15marks**
18. a) Name and explain briefly in words at least five (5) technical words which are parts of a standard window and frame. **7.5marks**  
 b) Name and explain briefly in words at least five (5) technical words which are parts of a standard door. **7.5marks**
19. (a) With a good sketch, draw a gable window and a dormer window. **6marks**  
 (b) With a good sketch, explain a framed, braced and battened door. Name at least four (4) parts. **9marks**