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

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Name at least four (4) parts.