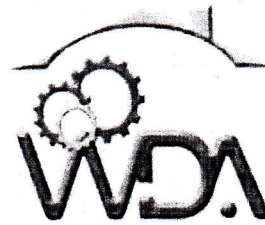


CST – Technical Drawing and  
D.C.G

**T122**

Thursday, 19/11/2015  
08:30 – 11:30

WORKFORCE DEVELOPMENT AUTHORITY



P.O. BOX 2707 Kigali, Rwanda Tel: (+250) 255113365

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

**EXAM TITLE: Technical Drawing and D.C.G**

**OPTION: Construction (CST)**

**DURATION: 3hours**

**INSTRUCTIONS:**

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

Section I: Fifteen (15) questions, all **Compulsory**.

**55marks**

Section II: Five (5) questions, **Choose only One (1)**.

**45marks**

- The use of drawing materials is recommended.

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

**Section I. Fifteen (15) Compulsory questions.**

**55marks**

01. Draw the dimension line, center line, section line and visible line that are used in construction technical drawing. **4marks**
02. Give the term used when the object is projected on the frontal plane, on the horizontal plane and on the side. **6marks**
03. How will you proceed when dividing an angle into five (5) parts? **3marks**
04. Give any three (3) various standards that you know. **3marks**
05. Pictorial drawing provides a three dimensions image to help people to understand the shape of an object. Name the three (3) main divisions of pictorial drawing. **3marks**
06. Give the drawing paper size (closest international size) for A<sub>4</sub>, A<sub>2</sub>, A<sub>1</sub> and A<sub>0</sub>. **4marks**
07. What is the purpose of making available a site plan before starting the building construction execution? Give any five (5) functions of the site plan. **6marks**
08. What are the differences between two and three-dimensional representation of an object? **2marks**
09. Explain in details the importance /role of the software in 'computer aided design' that we use in technical construction drawing. **7marks**
10. Give the minimum information that should be seen in the technical construction drawing title. **4marks**
11. Give all types of characteristic space that we have to consider during lettering in technical drawing. **3marks**
12. In technical drawing, how do we represent (by symbols) the following construction materials? **4marks**
- a) Steel,
  - b) sand,
  - c) earth
  - d) water.
13. In technical drawing, what are the uses of:  
a) cutting plane,  
b) section lines? **2marks**
14. What do you understand by a "linear scale"/bar scale? **2marks**
15. Give at least two groups of people that most commonly practice the construction technical drawing. **2marks**



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

**(Do not choose more than one question). 45marks**

According to this ground floor plan view given below, you are requested to draw only one of the following:

16. The section 01-01;
17. The section 02-02;
18. The front view;
19. The side view;
20. The roof plan (of your choice).

