

**CST – Technical Drawing and
D.C.G**

T124

Thursday, 06/11/2014

08:30 - 11:30 AM

WORKFORCE DEVELOPMENT AUTHORITY



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**ADVANCED LEVEL NATIONAL EXAMINATIONS, 2014
TECHNICAL AND PROFESSIONAL TRADES**

EXAM TITLE: Technical Drawing and D.C.G

OPTION: Construction (CST)

DURATION: 3hours

INSTRUCTIONS:

The paper consists of **two (2) Sections** :

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

Section **II** : Two (**2**) questions, **Choose any One (1)**. **45marks**

Candidates are recommended to use the drawing materials where necessary.

Section I. Eleven (11) Compulsory questions.

01. State two (2) softwares that are used in construction design. **2marks**
02. What is the meaning of "scale drawings"? **4marks**
03. a) What do you understand by the term «drawing»? **1mark**
b) Give the classification of drawing. **2marks**
c) What is the difference according to the classification above? **2marks**
04. In engineering drawing, lettering plays an important role as it explains those parts of the object which cannot be shown by lines.
What are the requirements of good lettering? **5marks**
05. Explain why the construction designer needs to visit the site. **3marks**
06. What are the qualities/characteristics of a good drawing board? **5marks**
07. How do we represent : **10marks**
a) The dining room b) The bedroom c) The WC/Toilet
d) The bathroom e) The Door
during the construction design?
08. Mention any five (5) pieces of information relative to the drawing which are grouped (included) below on the right of the sheet. **5marks**
09. a) What are the two types of pencils used in engineering drawing practice ?
b) Why is one of them preferred than the other? **3marks**
10. How do we represent the following construction materials on construction design?
a) Natural soil b) Metals c) Concrete
d) Plastic material e) Wood **10marks**
11. In the construction drawing, the surface area of A_0 size sheet is 1 square meter. Show the relationship of the «A» series drawing sheets. **3marks**

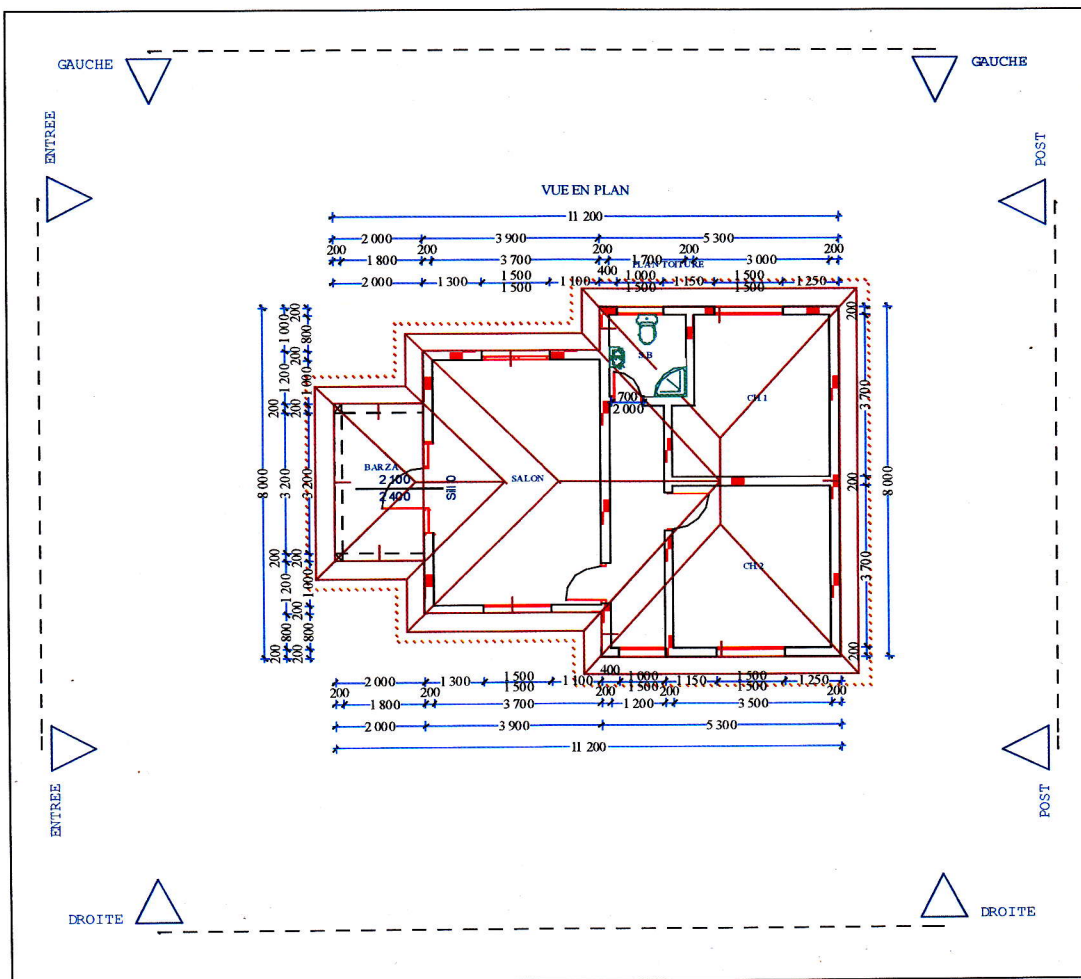
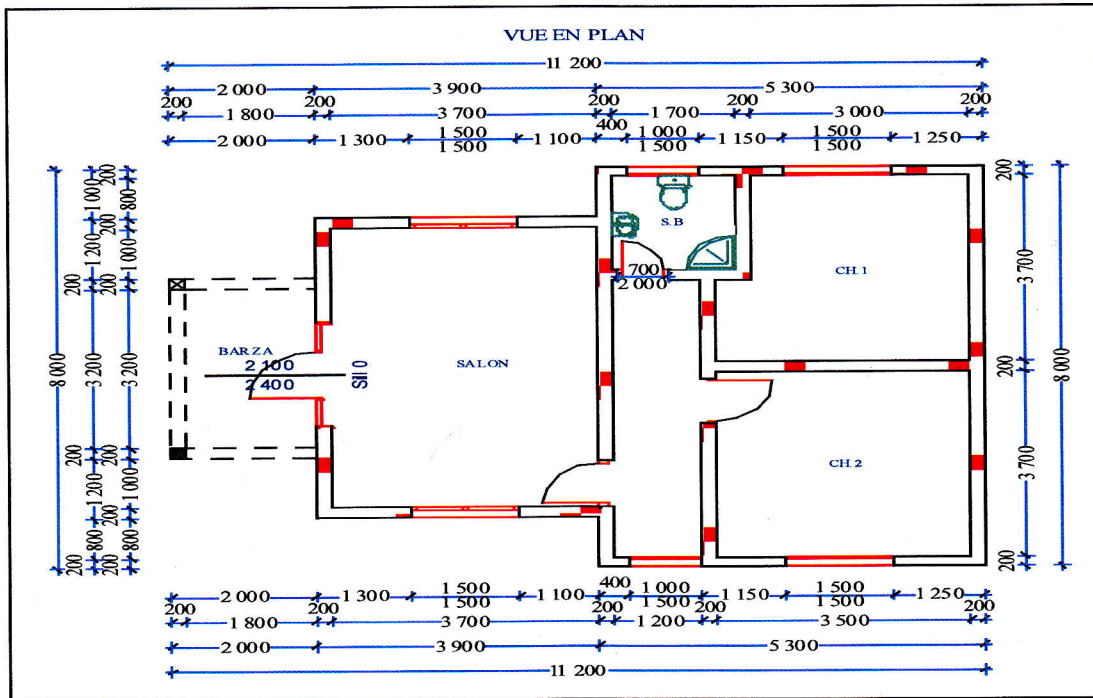
SECTION II. ATTEMPT ANY ONE (1) QUESTION.

12. a) By observing the fitted out plan view and the plan of the roof; by sketch propose two facades of your choice supposing that the height of the walls of rise is 3 m. **15marks**
- b) Propose a line of cup (cutting) and make a sketch of this cup (cutting) by showing the depth of foundation, the height of bays (berries) and roof by respecting your line of cup (cutting). **15marks**

c) Respecting the shape and the outside view (sight) of our house, to propose the changes of the internal conception (design) while trying to increase the comfort and the safety (security) of the occupants.

15marks

(Several sketches of proposal can be accepted)



13. According to this ground floor plan view given below (Annex), you are requested to draw only one of the following sections of your choice :

45marks each choice.

- a) Section **A-A**
- b) Section **B-B**, or
- c) To draw the **roof plan**.

