

**MAS – Masonry Basic Drawing**

T042

Tuesday, 20/7/2021

08:30 – 11:30 AM

Names

Index number

TVET NATIONAL EXAMINATIONS, RTOF LEVEL 5, 2020-2021

QUESTIONS and ANSWERS BOOKLET

OPTION / TRADE · MASONRY

SUBJECT : Masonry Basic Drawing

ACADEMIC YEAR: 2020-2021

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TVET NATIONAL EXAMINATION, RTQF LEVEL 5, 2020-2021

INSTRUCTIONS TO CANDIDATES: PART I (Answer Booklet)

1. A candidate should fill in the actual names and the index number on the cover of this questions and answer booklet on the provided place (Black Box).
2. It is illegal for a candidate to write any of his/her names, index number or a school name inside the answer booklet.
3. A candidate should check if all pages of the answer booklet are complete. No candidate should remove or tear any pages or part of it from the answer booklet.
4. A candidate should answer in the language in which the examination is set. (See page **(ii)**)
5. A candidate should sign on the sitting plan when submitting the answer booklet. He/she has also to check if the answer booklet is well sealed.
6. No extra paper is allowed in the examinations room. If a candidate is caught with it his/her results will be nullified.
7. No candidate is allowed to write answers not related to the subject being sat for, otherwise it will be considered as a cheating case.
8. Write your answers on the 12 lined pages (From page 1 of 12 to page 12 of 12).
9. Use the last non-lined pages as draft.
10. Results for any candidate who is caught in examination malpractices are nullified. The cheating can be recognized during examinations administration, marking exercise or even thereafter.

TVET NATIONAL EXAMINATION, RTQF LEVEL 5, 2020-2021

OPTION/TRADE: MASONRY

SUBJECT: Masonry Basic Drawing

DURATION: 3 hours

INSTRUCTIONS TO CANDIDATES: PART II (Question paper)

The paper is composed of two (2) main Sections as follows:

Section I: Attempt all the Twelve (12) questions (60 marks)

Section II: Attempt any Four (4) questions out of Six (6) (40 marks)

Allowed materials:

- Ruler and square
- Calculator

Note:

Every candidate is required to carefully comply with the provided assessment instructions.

Section I: Attempt all the Twelve (12) questions

(60 marks)

(01) Define the following terms as used in masonry:

- a) Drawing
- b) Floor plan
- c) Foundation
- d) Drawing section
- e) Scale

(5 marks)

(02) Describe the three (3) applications of engineering drawing. **(5marks)**

(03) List out any five (5) drawing tools and equipment used in construction drawing. **(5 marks)**

(04) a) What is meant by the term “lettering”?

b) What are the three (3) classification of lettering? **(5 marks)**

(05) Mary wants to design a residential building to live in together with her family. As a student in trade of masonry, differentiate the two (2) major types of drawing used in construction. **(5 marks)**

(06) Calculate the true scale used to draw on object which has 50mm on drawing and 10m as its real dimension. **(5 marks)**

(07) The side of the building on paper was 12cm at the scale of 1/50; calculate the real length of the same building. **(5 marks)**

- (08) Describe any five (5) geometric angles which should be used in construction drawing. **(5 marks)**
- (09) A pencil is needed for writing or drawing, what are the types of pencils used in drawing? **(5 marks)**
- (10) What are the four (4) types of paper? **(5 marks)**
- (11) We need drawing board to use as a base for drafting on paper. Enumerate the size of drawing board and with its corresponding drawing papers. **(5 marks)**
- (12) Complete the following table for the size of drawing Sheet: **(5 marks)**

Designation	Dimension, mm Trimmed size	
	x	y
A0		1189
A1		
A2		
A3		
A4	210	

Section II: Attempt any Four (4) questions out of Six (6) (40 marks)

(13) a) Give all types of dimension. **(5 marks)**

b) Enumerate all elements of dimension. **(5marks)**

(14) a) What are the five (5) elements should you base on to create a section? **(5 marks)**

b) Explain what elevation is in construction drawing. **(2 marks)**

c) Explain what CAD means. Give two (2) examples of CAD software.

(3 marks)

(15) Manzi wants to read the measurement of his house on drawing paper. List any five (5) principles of dimensioning. **(10 marks)**

(16) On drawing sheet there is a part called “title block”

a) Define Title block.

b) Enumerate at least five (5) elements of title block.

c) What is the main purpose of title block? **(10 marks)**

(17) Explain the following types of lines:

a) Centre Line

b) Dimension Lines

c) Leaders

d) Break Lines

e) Phantom Lines

f) Sectioning Lines

g) Extension Lines

h) Hidden Lines

i) Stitch Lines

j) Outlines or Visible Lines.

(10 marks)

(18) Symbols can be used on a floor plan drawing to indicate placement and specific equipment. What are the names of the following symbols?

(10 marks)



