



**NATIONAL EXAMINATION
AND SCHOOL INSPECTION
AUTHORITY**

T182

Monday, 26/7/2021

08:30 – 11:30 AM

Names:

Index number

TVET NATIONAL EXAMINATION, RTQF LEVEL 5, 2020-2021

QUESTIONS and ANSWERS BOOKLET

OPTION/TRADE: CERAMIC AND SCULPTURE

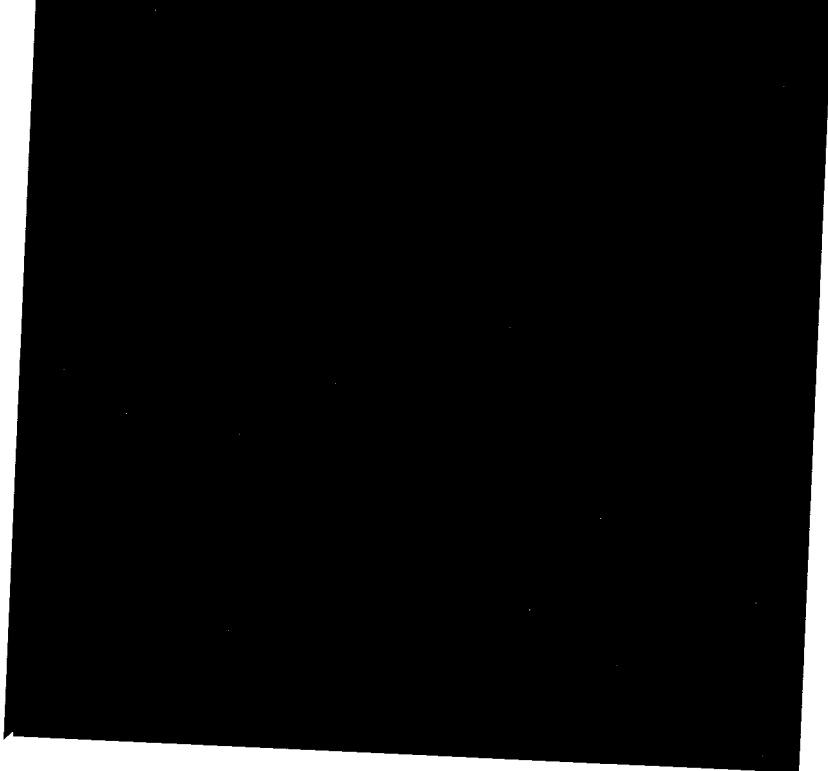
SUBJECT: Ceramic Technology

ACADEMIC YEAR: 2020-2021

Read carefully the instructions on page (i) & (ii).

FOR EXAMINER'S USE ONLY

[illegible]



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: CERAMIC AND SCULPTURE

SUBJECT: Ceramic Technology

DURATION: 3 hours

INSTRUCTIONS TO CANDIDATES: PART II (Question Paper)

The paper is composed of two (2) 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 or 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.a) Define oxidation firing. (3marks)

b) Name two types of firing. (2marks)

02. Classify the following materials into permanent and temporary raw materials for sculpture:

- Wood

- Clay

- Metal

- Stone

- Plaster.

(5marks)

03.(a) Define fumigation as way of treating timber. (2marks)

(b) Give any three (3) modes of fumigating timber. (3marks)

04. State any five (5) hand-built techniques in ceramic production.

(5marks)

05.a) Briefly explain any three (3) finishing techniques of ceramic pieces. (3marks)

b) State and explain any four (4) negative effects of drying a wet ceramic piece in direct sunlight. (2marks)

06. Give the factors you will take into consideration when felling a tree.

(5marks)

07. Give any five (5) types of clay suitable for ceramic production.

(5marks)

08. a) Give and describe any two (2) characteristics of ball clays.

(4marks)

b) Give any two (2) importances of firing clay to a potter.

(1mark)

09. State the importance of chamotte (grog) as an additive to clay of high plasticity.

(5marks)

10. Give any five (5) disadvantages of wood-fired kilns.

(5marks)

11. List the non-alkaline elements composing clay.

(5marks)

12. a) Give and describe any two (2) properties of good clay for modeling.

(4marks)

b) Define the term Raku as used in ceramic technology. **(1mark)**

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

13. Outline characteristics of the following types of clay:

(i) Ball clay

(ii) Kaolin.

(iii) Earthenware clay

(iv) Stoneware.

(10marks)

14. Differentiate basic Oxidization firing from Reduction firing

in the kiln.

(10marks)

15. Describe how you would prepare pottery glaze in the studio.

(10marks)

16. Outline ways of how to decorate ceramic pieces with oxides.

(10marks)

17. State and explain five (5) firing defects which appear after the

firing process.

(10marks)

18. Describe the five (5) basic methods of applying glazes onto

ceramic pieces.

(10marks)

- END -

