

Candidate's Examination Number.....

SMZ

ZANZIBAR EXAMINATIONS COUNCIL

FORM THREE ENTRANCE EXAMINATION

059

CARPENTRY AND JOINERY

TIME: 2:30HOURS

MONDAY 09TH DECEMBER, 2019 A.M

INSTRUCTIONS TO CANDIDATES

1. This paper consists of **THREE (3)** sections A, B and C.
2. Answer **ALL** questions in sections A, B and C.
3. **ALL** answers must be written in the spaces provided.
4. Write your examination number on every page of this booklet.
5. Calculators and cellular phones are not allowed in the examination room.
6. Use blue or black pen in writing and drawing must be in pencil.

FOR EXAMINER'S USE ONLY					
QUESTION NUMBER	MARKS	SIGNATURE	QUESTION NUMBER	MARKS	SIGNATURE
1			9		
2			10		
3			11		
4			12		
5			13		
6					
7					
8					
TOTAL					

This paper consist of 12 printed pages

SECTION A: (10 marks)

Answer ALL questions in this section

1. Choose the letter of the correct answer and write its letter in the table below.
 - i) The following are the safety precautions in bench wood workshop except
 - A. Keeps tools properly in their proper racks
 - B. Never carry sharp edged tool in your pocket
 - C. Walk around the workshop but never run
 - D. Wear a protective boots, goggle and ear protector
 - ii) It is important to keep the oil stone in wooden box because
 - A. It simplifies the work of sharpening of cutters.
 - B. It prolong the life span of the stone
 - C. It retains the oil poured in to it.
 - D. The wooden box is cheap
 - iii) Which of the following is possible situation to promote fungus growth?
 - A. Dump and sunny
 - B. Hot and windy
 - C. Dump and unventilated
 - D. Rainy and ventilated
 - iv) When preparing timber for use, the first side to be planned is
 - A. The end side
 - B. The edge side
 - C. The face side
 - D. The face edge

- v) Carpentry is an art of
- A. Dealing with cutting, fitting and assembling wood or related materials in construction
 - B. Construction of bridges
 - C. Science in building
 - D. Repairing wooden objects
- vi) A burnisher is an abrading tool for sharpening
- A. Scraper
 - B. Chisel
 - C. Nail punches
 - D. Cutting knife
- vii) The cut formed by saw is called
- A. Fillet
 - B. Kerf
 - C. Architrave
 - D. River
- viii) The instrument used to measure moisture content in kiln plant is called
- A. Barometer
 - B. Photometer
 - C. Electric moisture meter
 - D. Speed meter
- ix) Mitre joint is popular in
- A. Right framing
 - B. Cabinet works
 - C. Flooring jointing
 - D. Roof framing joint
- x) Bow, cup, spring and twist are forms of
- A. Joint
 - B. Warping
 - C. Nails
 - D. Timber connector

ANSWERS

i	ii	iii	iv	v	vi	vii	viii	ix	x

SECTION B : (45 Marks)

Answer ALL questions in this section

2. List down four (4) stages involved in reconditioning of saws.

3. a) Why is safety in workshop important?

4. Identify the forms of natural defects in timber.

5. List down three (3) requirements of good preservatives.

6. a) Name operations that can be performed on wood turning lathe.

- b) Name two (2) common types of portable electric plane and state the main application of each type.

7. Point out three (3) boring tools in a woodwork workshop.

9. Briefly explain three (3) classes of planes and their applications.

9. State the applications of the following veneering tools

i) Taping stick

ii) Cutting gauge

iii) Veneer hammer

10. State four (4) advantages of manufactured boards over solid boards for constructional and cabinet work.

SECTION C: (45 Marks)

Answer ALL questions in this section.

11: a) In how many ways are timber divided?

- b) (i) Define the term timber conversion.
- (ii) Briefly explain two (2) methods in which the timber can be converted.

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

- c) Name the common processes of wood working joint (at least four processes)

[illegible]

12: a) Identify four (4) classifications of wood working joints.

b) (i) Give five (5) types of carpentry tools.

(ii) State the application of each tool given in (b) (i) above.

c) Distinguish between marking gauge and mortise gauge.

13. a) Sketch a neat and well labeled diagram of a bow saw.

b) Explain why certain trees in the temperate forest areas are called evergreen trees.

This image shows a single page of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

[illegible]

Page 12 of 12