

Candidate's examination number.....

SMZ

**ZANZIBAR EXAMINATIONS COUNCIL
FORM THREE ENTRANCE EXAMINATION**

059

CARPENTRY AND JOINERY

TIME: 2:30HOUR

THURSDAY, 6TH DECEMBER 2018 am

INSTRUCTIONS TO CANDIDATES

1. This paper consists of sections A, B and C.
2. Answer ALL questions in sections A, B and any two (2) questions from section C.
3. ALL answers must be written in the space provided.
4. Write your examination number on every page of this booklet.
5. Calculators and cellular phones are not allowed in the examination room.

FOR EXAMINER'S USE ONLY					
QUESTION NUMBER	MARKS	SIGNATURE	QUESTION NUMBER	MARKS	SIGNATURE
1			8		
2			9		
3			10		
4			11		
5			12		
6			13		
7			14		
8			15		
TOTAL					

This paper consist of 13 printed pages

SECTION A: (20 marks)

Answer ALL questions

1. Choose the letter of the correct answer and write it below the item number 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
 - E. Do not touch any tools with out permission from a teacher
 - 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
 - E: It make the work more simply.
 - iii) Which of the following is possible situation to promote fungus growth?

A. Dump and sunry	B. hot and windy
C. Dump and unventilated	D. Rainy and ventilated
E. soil and water	
 - iv) When preparing timber for use, the first side to be planned is the

A. end side	B. edge side	C. face side
D. face edge	E. corner side	

- 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
 - E. manufacturing wooden furniture
- vi) A burnisher is an abrading tool for sharpening
- A. scrapper
 - B. chisel
 - C. nail punches
 - D. cutting knife
 - E. saws
- vii) The cut formed by saw is called
- A. fillet
 - B. kerf
 - C. architrave
 - D. river
 - E. Cornice
- viii) The instrument used to measure moisture content in kiln plant is called
- A. Barometer
 - B. Photomet
 - C. Electric moisture meter
 - D. speed meter
 - E. Gallometer
- ix) Mitne joint is popular in
- A. right framing
 - B. cabinet work
 - C. flooring jointing
 - D. roof framing joint
 - E. fire places
- x) Bow, cup, spring and twist are forms of
- A. joint
 - B. warping
 - C. nails
 - D. timber connector
 - E. screw

ANSWERS

i	ii	iii	iv	v	vi	vii	viii	ix	x

2. Match the items in **List A** with the responses in **List B**. Write the letter of the correct response below the item number in the table below.

LIST A	LIST B
i. Cut angles of various degrees furnish timber	A. Bow saw
ii. Cuts large curves in fairly heavy timber.	B. Circular saw
iii. Cuts large diameter curves in a thin wood.	C. Coping saw
iv. Cuts large joints especially in soft wood.	D. Dovetail saw
v. Cut perpendicular to the grain of lumber.	E. fret saw
vi. Cuts sharp curves in a thin board near to the edge.	F. hack saw
vii. Cut along the grain of a lumber.	G. Miter box saw
viii. Cuts small diameter holes and similar cuts started from a hole.	H. Pad saw
ix. Cuts metal.	I. panel saw
x. Useful for cutting hardwood joints.	J. pull saw
	K. Rip saw
	L. Tenon saw
	M. Key Hole saw
	N. Steel saw
	O. Compass saw

ANSWERS

i	ii	iii	iv	v	vi	vii	viii	ix	x

SECTION B: (50 marks)

Answer ALL questions

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

4. a) What do you understand by the term "first aid"?

- b) Give any two (2) objectives of first aid kit.

5. Identify any three (3) methods that can be used to preserve wood.

6. Write down any two (2) disadvantages of timber.

7. a) Name the two (2) general classes of trees .

- b) Give one (1) example for each class named in part 7(a) above.

8. Give the difference between the marking gauges and mortise gauges.

9. Briefly explain the following terms

- a) Marking

- b) Sawing

10. Name any three (3) types of planes.

11. What will happen if a piece of timber is not seasoned after the fresh cut?

12. Draw a neat diagram of a hand saw

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SECTION C: (30 marks)

Answer any two (2) questions

13. a) Draw a well labeled diagram of a firmer chisel and show the following areas.
i) Handle ii) Furrel iii) Tang iv) Shark v) Blade

- b) Write down the function of

- i) Axes

ii) Side axes

14. a) identify any four (4) types of shakes

b) Describe any two (2) seasoning methods.

c) Explain the function of each of the following tools which are mostly used in carpentry workshop.

i) Bevels

ii) Compass (or divider)

15. a) Write short explanation on "shrinkage of timber".

b) Give one (1) advantage of artificial seasoning.

c) Distinguish between hand tools and equipments

[illegible]

[illegible]

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