SMZ

ZANZIBAR EXAMINATIONS COUNCIL

FORM THREE ENTRANCE EXAMINATION

059 CARPENTRY AND JOINERY

TIME: 2:30HOURS WEDNESDAY 30TH DECEMBER 2020 A.M

INSTRUCTIONS TO CANDIDATES

- 1. This paper consists of **THREE** (3) sections A, B and C.
- 2. Answer **ALL** questions in section A, B and C.
- 3. ALL answers must be written in the space provided.
- 4. Use a black or blue pen in writing. Diagrams must be in pencil.
- 5. Write your examination number every page of this booklet.
- 6. Calculators, cellular phones and on unauthorized materials 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.					
TOTAL		,		•	

This paper consists of 12 printed pages

SECTION A: (15 Marks)

Answer ALL questions from this section.

1.	Choo	se the correct answe	er and write it	s letter in the	table pro	ovided below.		
	i)	Large nail from timber may be removed by						
		A: claw hammers	B: Pliers	C: pincers	D: crov	wbar		
	ii)	One of the following minimizes dust particles in carpentry workshop						
		A: Dust mask	B : Goggle	C: Dust bin		D: Gloves		
	iii)	Router is an exampl	e of					
		A: hand tool B:	portable tool	C: static pow	er tool	D: None of these	•	
	iv)	A cone like layer of	wood formed i	n each growing	season			
		A: cambium layer	B: ar	nnual ring				
		C: hard wood	D: sa	arp wood				
	v)	One of the following	ng is a conten	t of first aid ki	t			
		A: marking knife	B: w	arring ton ham	nmer			
		C: clinical thermon	neter D: o	ilstone				
	vi)	Long hair should b	e tied back w	hile working ir	a work	shop is atypical		
		example of						
		A: machine shop regulation only						
		B: bench workshop regulation only						
		C: Both machine shop regulation and bench workshop regulation						
		D: safety at any w			•	3		
	vii)			nisel and for k	nockina	together pieces o	١f	
	v <i>y</i>	A special tool used for driving chisel and for knocking together pieces of woods is called						
		A: nail bar	B: claw han	nmer				
	:::\	C: mallet hammer D: cross pen hammer Which of the following is a possible situation to promote fungi growth						
	viii)				•			
		A: damp and sunn	•		t and wi	•		
		C: damp and unve	ntilated	D: da	rk and u	inventilated		

ix) This is not an example of timber conversion

A: through and through method B: slicing method

C: quarter sawing machine D: tangential sawing method

x) While working in the workshop the first side to plane is

A: face side B: face edge C: end edge

Answers

-									
	ii	iii	iv	٧	vi	vi	viii	ix	Х

D: side edge

2. Match the definition of Carpentry term in **Column A** with the relevant term in Column B by writing the letter of the correct response below the item number in the table provided

	COLUMN A	COLUMN B
i)	The process of setting out dimension on a piece of	A. Chiseling
	wood	B. Milling
ii)	The process of cutting concave ,convex and other	C. Marking
	curved surfaces along the piece of wood	D. Grooving
:::>	Ţ ,	E. sawing
III)	The process of cutting a small stock of wood to to get	F. Moulding
	the desired shape	
iv)	The process of truing up a piece of wood by a planner	G. Planning
v)	The process of cutting a wood of required size and	H. Ribetting
	shape such as such as straight and inclined curves	

Answers

i	ii	iii	iv	٧

SECTION B: (40 Marks)

Answer all questions from this section.

b)	Identify any three (3) causes of accidents in a workshop.
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1)	List down four (4) tools that are used to set out circles and arcs.
h۱	Give two (2) examples of chisels

a) Identify any three (3) wood boring insects. b) Give the alternative name for	- -	Define the term wood preservative.
c) With typical examples, outline any two (2) common types of prese a) Identify any three (3) wood boring insects. b) Give the alternative name for	-	
a) Identify any three (3) wood boring insects. b) Give the alternative name for	b)	Name two (2) methods of applying wood preservatives.
a) Identify any three (3) wood boring insects. b) Give the alternative name for	_	
a) Identify any three (3) wood boring insects. b) Give the alternative name for		
b) Give the alternative name for	c)	With typical examples, outline any two (2) common types of preservati
b) Give the alternative name for		
	a)	Identify any three (3) wood boring insects.
	— —	Give the alternative name for
i) Soft wood tree (ii) Hard wood tree	-	i) Soft wood tree (ii) Hard wood tree

	Mention any three (3) reasons for seasoning of timber.
b)	State any two (2) applications of surface plane machine.
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	th typical examples, explain the main classes of cutting tools in a carpe
	th typical examples, explain the main classes of cutting tools in a carper

Candidate's Examination Number..... 9: Briefly explain any five (5) characteristics of timber. (a) Define the following terms 10: i) Sap wood ii) Cortex (b) Give the difference between carpentry work and joinery work. Distinguish between Butt joint and lap joint.

SECTION C: (45 Marks)

Answer ALL questions from this section.

11:	a)	Briefly explain the term "Equilibrium moisture content"
	b)	In what methods can moisture content be measured?
	c)	It was observed that the weight of timber before dried as 850g and the
		weight reduced to 750g on drying. What can you conclude on the average
		moisture content?

	- <u></u>		
12:	a) Draw a cross-section	of tree trunk and use it to show t	he following parts:-
	i) Pith	(ii) Hart wood	
	iii) Sapwood	(iv) Cambium layer	(v) Bark

Candidate's Examination Number..... b) State any four (4) features of a good timber. a) Briefly explain the term "timber shrinkage". b) Give two (2) advantages of artificial seasoning. Give the differences between hand tools and equipment. c)

13:

Candidate's Examination Number

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