

THE UNITED REPUBLIC OF TANZANIA NATIONAL EXAMINATION COUNCIL CERTIFICATE OF SECONDARY EDUCATION EXAMINATION

074

CARPENTRY AND JOINERY

(For Both School and Private Candidate)

Time 3: Hours

Thursday, 18th October 2012 a.m.

Instructions

- 1. This paper consists of section A, B and C
 - Answer all questions in section A and B and two (2) questions from section C.
- Calculators are not allowed in the examination room.
- 4. Cellular phones are not allowed in the examination room.
- 5. Write your Examination Number on every page of your answer booklet(s).

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SECTION A (20 Marks)

Answer all questions in this section.

100	1000			Fabru C. Housen	· my come		
(1)	Centres can be set by using one of the following except A loci B latter chords C radius rod						
				triangular template.	-	Talland y South	
	D	trammel	12	triangular templane.			
(11)	In shoring, the component that penetrates into the wall and locates the top of the rake						
	15.0	alled					
	A	cleat	13	needle	C	wall hook	
	D	wall piece	E	wedge			
(iii)	When an opening for the doorway is constructed, the joint used between the door hea						
		f jambs is					
	A	fish plated		housed	C	mitred	
	D	splayed dovetail	E	tongue and groove.			
(iv)	Th	e type of roof that	has	the fewest number of	different	-size members is called	
68890	A	77.00		B gambrel	C	hip	
	D	mansard		E shed.			
100	Tibe	e minimum size of	eoi	ng in a private stair is			
(v)	A	120 mm	10000	B 220 mm	C	230 mm	
	D	240 mm		E 330 mm.			
(vi)	The standard height for a dining table is						
	A	71 cm to 74 cm	B	71 cm to 76 cm	C	76 cm to 80 cm	
	D	90 cm to 96 cm	E	95 cm to 100 cm.			
(vii)	Varnishes are applied to wood structures by						
	A brushes and spray guns B pieces of cloth and brushes						
	C rollers and pieces of sponge D rollers and spray guns						
	E	spray compresso	or an	id air guns.			
		153150			and the state of	and an annual and	
(viii)	Which of the following type of soil does not need timbering to trenche-? R. Hard soil C. Organic soil						
	A	Firm soil	B	Hard son	· C	Cylgamic son	
	D	Peat soil		Water logged soil.			
(100).	refers to strong pieces of timber bolted round the column formwork to ke						
	the	panels in position	wh	olst concrete is poure	d.		
	A	Ledges	В	Props	C	Struts	

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- (x) In timber partition the vertical members are known as
 - A jambs

B poles

D stiles

E studs.

post

Match the items in List A with the responses in List B by writing a letter of the correct response beside the item number.

List A	List B	
(ii) Cuts large curves in fairly heavy timber. (iii) Cuts large diameter curves in thin wood. (iv) Cuts large joints, especially in softwood. (v) Cuts perpendicular to the grain of lumber. (vi) Cuts sharp curves in a thin board near to the edge. (vii) Cuts along the grain of lumber. (viii) Cuts small diameter holes and similar cuts started from a hole. (ix) Cuts metal. (x) Useful for cutting hardwood joints.	A Bow saw B Circular saw C Coping saw D Dovetail saw E Fret saw F Hacksaw G Miter box saw H Pad saw I Panel saw J Pull saw K Rip saw L Tenon saw M Hole saw N Steel saw O Curved saw	

SECTION B (40 Marks)

Answer all questions in this section.

- Name any four standard attachments that are supplied with the portable power drill and state the function of each.
- Make a neat pictorial drawing of a tree trunk and label its parts.
- Explain the following glue terms
 - (a) Port life

(b) Shelf life

(c) Cramping time

- (d) Setting time.
- 6. (a) With an example, name two types of abrasives used while finishing wood.
 - (b) Explain why would you wish to apply wood filler to a piece of furniture you are making?
- Explain in brief the following terms in connection to form-work;
 - (a) Decking

(b) Distance piece

(c) Form tape

(d) Double-headed nail.

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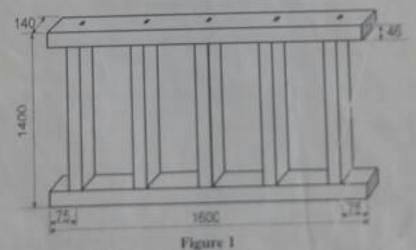
- What is the maximum and minimum height of hand call from the line of nosing?
 - What is the maximum and minimum pitch of a stair? (b)
 - Distinguish between newel post and baluster. (6)
- What are the basic operations that a woodworker should be competent? (a)
 - Explain briefly the method of squaring up a stock. (b)
- Name four forms of mortise and tenon joints and give one example where each is used 10.
- What is the difference between a king post truss and a queen post truss? TI
 - State four functions of a roof. Obt
- State four reasons of providing ceiling in a building 12. (a)
 - List down four materials used in ceiling finishes. (b)

SECTION C (40 Marks)

Answer two (2) questions from this section.

Briefly describe the process of fixing steel casement window frame in pos-com-13. (a) (06 marks)

Figure 1 shows a sketch of window frame made up of Mninga timber. P-epare a cutting (12.5 marks) list for 13 window frames.



All dimensions are in non-

If the cost of Mininga timber used in (b) is 43000's per meter run, calculate the total cost (01.5 marks) of the timber required for making 13 window frames.



- 14. (a) Explain the sequences of operations involved in shaping a straight work piece using a spindle moulder machine. (08 marks)
 - (b) Name any seven parts of spindle moulder machine and explain the function of each.

(07 marks)

(c) Draw a skew edge chisel and label its parts.

(05 marks)

15. (a) Enumerate the procedures for assembling a metal putlog scaffold.

(07 marks)

(b) With the aid of a sketch explain six points that should be kept in mind while creeting flying shores. (13 marks)