

#### Pre-Junior Certificate Examination, 2013

# Materials Technology (Wood) Higher Level Section A (40 marks)

Time: 2 hours

STUDENT NAME	
SCHOOL 🖝	
TEACHER	

#### **Instructions**

- (a) Answer any sixteen questions.
- (b) All questions carry equal marks.
- (c) Answer the questions in the spaces provided.
- (d) This booklet must be handed up at the end of the examination.
- (e) Write your name, your school's name and your teacher's name in the boxes provided and on all other pages used.

School Stamp					
Section A					
1					
2					
3					
4					
5(a) or 5(b)					
Total					

#### **SECTION A - 40 MARKS**

Answer any 16 questions from this section. All questions carry equal marks.

1.	Pillar Drill			n the list belove ander
2.	-	tick (🗸), whether ed in <b>Other</b> ways.  Natural	Other	are Natural or
3.	Give TWO rease it is necessary to preservative to a artefact that is keep REASON 1 REASON 2	apply wooden		
4.	Name TWO mereffects of the we	-	g metals from the dan	naging W+5

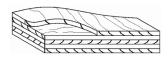
5.	The diagrams show the leaves of three common Irish trees. In the spaces provided, name the trees.
6.	Thinning is an important stage in the management of forestry.
0.	(i) Give <b>ONE</b> reason for thinning a forest.
	(i) Give Oive leason for timining a forest.
	REASON
	(ii) State <b>TWO</b> uses for these forest thinnings.
	USE 1
	USE 2
7.	The diagram shows three types of hinge. In the spaces provided, name the hinges.
0	List THDEE adhasiyyas that are commonly used in the MTW workshop
8.	List <b>THREE</b> adhesives that are commonly used in the MTW workshop.
	ADHESIVE 1
	ADHESIVE 2
	ADHESIVE 3

	1 no (i)	e item shown in the diagram is used when bending wood.  Name the item shown.
	` ,	NAME Clamp Wood
	(ii)	State <b>ONE</b> reason why wood is steamed before it is bent into a curve.
		REASON
10.	(i)	Name the woodworking tool shown in the diagram.
		NAME A
	(ii)	Name the parts labelled <b>A</b> , <b>B</b> and <b>C</b> .
		A B
		В
		C
11		
11.	Sho	own in the diagram is a wood-boring insect.
111.	Sho (i)	Name the most common wood-boring insect found in Ireland
11.	(i)	Name the most common wood-boring insect found in Ireland  NAME
11.	(i)	Name the most common wood-boring insect found in Ireland  NAME  State TWO methods to protect wood from attack by wood-boring insects.
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	(i) (ii)	Name the most common wood-boring insect found in Ireland  NAME  State TWO methods to protect wood from attack by wood-boring insects.  METHOD 1  METHOD 2  State ONE safety precaution that should be followed when drilling acrylic.

13. The diagram shows a carved wood panel.  (i) Suggest a suitable timber for the panel.  ANSWER  (ii) Name ONE tool that could be used when creating the carving.  NAME	
14. The diagram shows a CNC router that is controlled by a computer. What do the initials CNC stand for?  C N C	
15. The diagram shows a claw hammer removing a nail.  Using a tick (✓), identify the force which is being applied to the nail.  COMPRESSION  TENSION  TORSION	
16. The diagram shows an incomplete exploded isometric sketch of a Bridle Joint.  Complete the sketch of the joint.	

17. Identify, using a tick (✓), whether the following manufactured boards are Particle Boards or Laminated Boards.

Boards	Particle	Laminated
OSB		
Plywood		
Chipboard		
MDF		
Block board		



18.	The	diagram	shows a	piece	of wood	that has	been	damaged	during	seasoning.
		or o		PICCO	01 11000	tilut iius	~~~		~~~	Dead Chilling.

(i) What is this defect called?

NAME

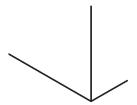


(ii) Suggest TWO methods to prevent this damage from occurring.

METHOD 1

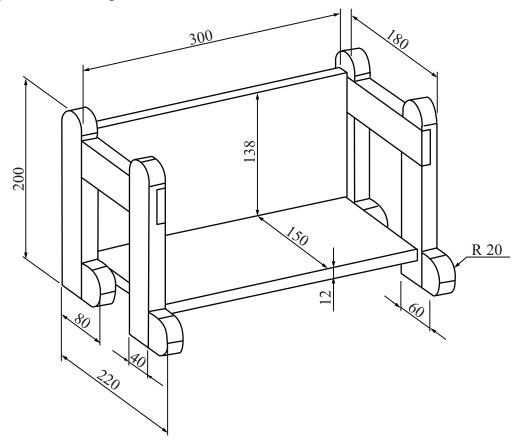
METHOD 2

19. Make a 3D sketch of a **Bench Hook** on the given isometric axes.



#### 20. The dimensioned drawing shows a musical rack made from wood.

Complete the cutting list below.



Description	Quantity	Length	Width	Thickness
Legs	4		40	20
Rails		180		20
Rounded Feet	4	40	40	
Base	1	300		12
Back	1	300	150	12

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