

Junior Certificate Examination 2009

Materials Technology-Wood Higher Level Section A

(40 Marks)

Monday, 15 June Afternoon 2.00 - 4.00

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 examination number in the box provided and on all other pages used.

Examination Number:

Centre Number	
Section A	
1	
2	
3	
4(a) or (b)	
5	
Total	

SECTION A - 40 MARKS

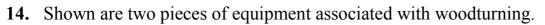
Answer any 16 questions from this section. All questions carry equal marks.

1.	 (i) Name the woodworking tool shown in the diagram. NAME (ii) State the function of the part A of this tool. FUNCTION
2.	The diagram shows a common defect in timber. (i) Give the correct name for this defect. NAME
3.	The edge of a piece of timber is finished with a common moulding as shown. Name the moulding. NAME
4.	The diagram shows the interior of a three pin plug. (i) Name the plug terminals S and T. S T (ii) What is the function of the FUSE in the plug? FUNCTION

The diagram shows the leaves and fruit of three common Irish trees. In the spaces provided, name the trees.	
4	
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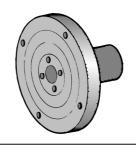
0 (i) The diagram shows a topon sour and a class
9. (i) The diagram shows a tenon saw and a close up view of its teeth. Every second tooth is
bent left and right. What is this feature called?
FEATURE
(ii) Why is this feature necessary?
ANSWER
10. The diagram shows a piece of wood securely held in a
wood working vice. What is the correct name for the
force applied to the piece of wood in the vice?
TORSION
COMPRESSION
TENSION
11. Identify, using a tick, whether the following metals are Ferrous or Non Ferrous.
Metals Ferrous Non Ferrous
Brass
Copper
Steel
Zinc
Cast Iron
12. Identify THREE safety features that are found in M.T.W. school workshops.
FEATURE 1
FEATURE 2
FEATURE 3

- **13.** The diagram shows an unfinished 3D sketch.
 - (i) Apply grain and shading to the sketch so that it resembles a piece of wood.
 - (ii) On the sketch, show the face side and face edge using the appropriate symbols.



(i) Name the two pieces of equipment.



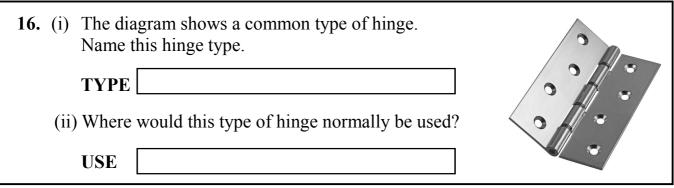


(ii) State **ONE** safety precaution that should be observed when using the woodturning lathe.

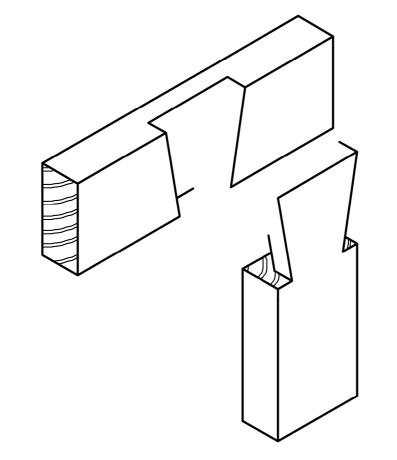
PRECAUTION

15. The diagram shows a machine controlled by a computer. State **TWO** advantages of controlling machines in this

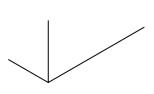
way.
1
2



17. The diagram shows an incomplete exploded isometric sketch of a **Dovetail Halving Joint**. Complete the sketch of this joint.



18. Make a 3D sketch of a **bench hook** on the given isometric axes.



19. The diagram shows a book shelf unit made from wood. Identify **ONE** design defect in the unit and describe a possible remedy. DEFECT REMEDY 20. The diagram shows a kitchen shelf made from wood. 8 Complete the cutting list below for the shelf. 180 150 100 Description Quantity Length Thickness Width 100 Base 1 15 Sides 2 150 15 1 **Back Rail** 300 Front Rail 1 30 15

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