



Junior Certificate Examination, 2016

Materials Technology (Wood)

Ordinary Level

Section A (40 marks)

Monday, 20 June

Afternoon, 2:00 - 4:00

Instructions

- (a) Write your **examination number** in the box provided and on all other pages used.
- (b) This booklet **must** be handed up at the end of the examination.
- (c) Answer any **sixteen** questions.
- (d) All questions carry equal marks.
- (e) Answer the questions in the spaces provided.

Examination Number



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Centre Number

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1.	Total of end of page totals	
2.	Aggregate total of all disallowed question(s)	
3.	Total mark awarded (1 minus 2)	
4.	Bonus mark for answering through Irish (if applicable)	
5.	Total mark awarded if Irish Bonus (3+4)	

Note: The mark in row 3 (or row 5 if an Irish bonus is awarded) must equal the mark in the **Grand Total** box on the script.

Question	Marks	
Section A		
1		
2		
3		
4		
5A or 5B		
Total		
Irish Bonus		
Grand Total		

SECTION A - 40 MARKS

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

1. Using a tick (✓), identify the screw type shown.



Countersunk Head Screw

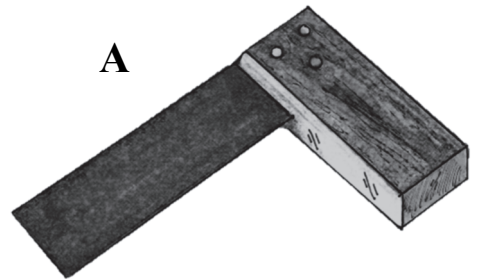
Raised Head Screw

Round Head Screw

2. Name the tool labelled **A** and explain what you would use it for.

NAME

USE

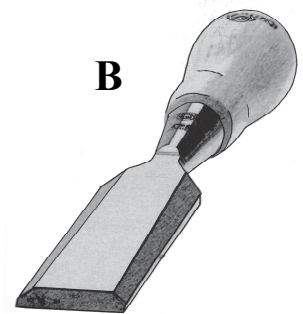


OR

Name the tool labelled **B** and explain what you would use it for.

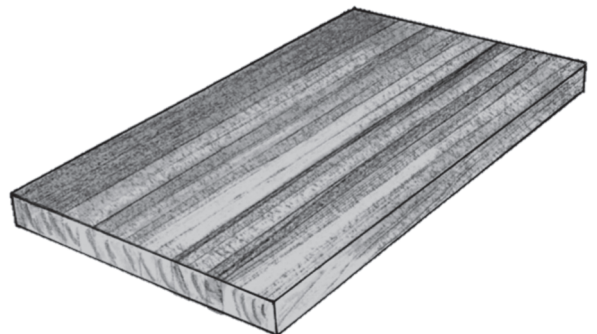
NAME

USE



3. The diagram shows a piece of wood.

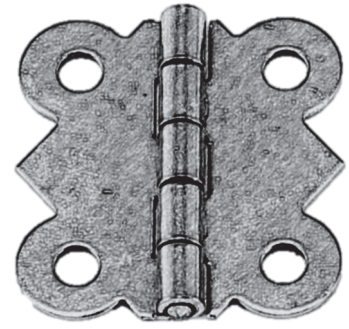
Draw the marks for the **face side** and the **face edge** in the correct positions on the diagram.



4. Name the fitting shown and explain what you would use it for.

NAME

USE



5. The diagrams show the leaves from two common Irish trees. Select the correct name for each tree from the given list.

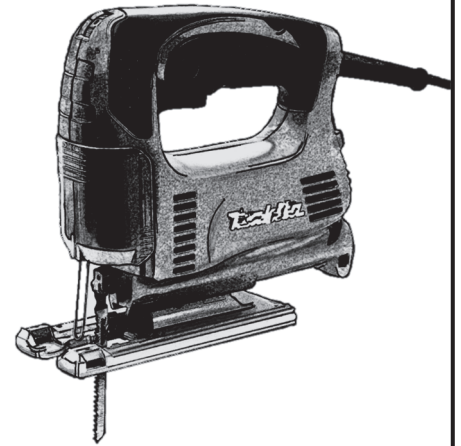


- Oak
- Sycamore
- Pine
- Horse chestnut
- Ash



6. Name the power tool shown in the diagram.

NAME



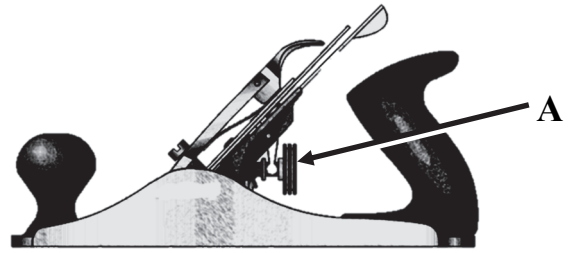
7. List **two** specific safety precautions that should be observed when using portable electric power tools.

1.

2.



8. What is the function of the part of the plane shown at A in the diagram?



FUNCTION

9. The diagram shows a cross section of a tree.

What is the name of the lighter coloured wood shown at A?

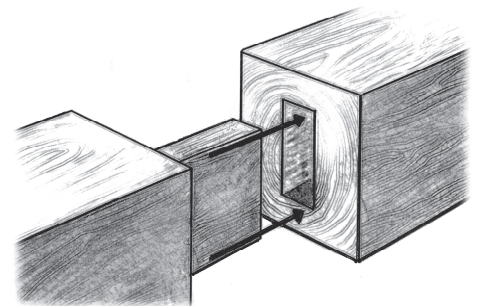


NAME

10. Show, by means of a tick (✓), which of the chisels on the left are **lathe tools** and which are **general tools** used for normal bench work.

TOOLS	Lathe tools	General tools
Firmer Chisel		
Roughing Gouge		
Bevel Edge Chisel		
Parting Tool		
Mortice Chisel		

11. Name the joint shown in the diagram.



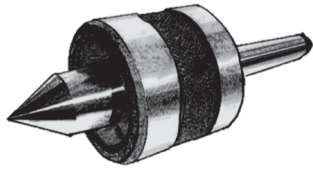
NAME

12. What does the term *timber conversion* mean?

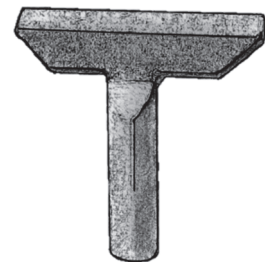


ANSWER

13. From the list given, select the correct name for each of the **two** lathe parts shown.



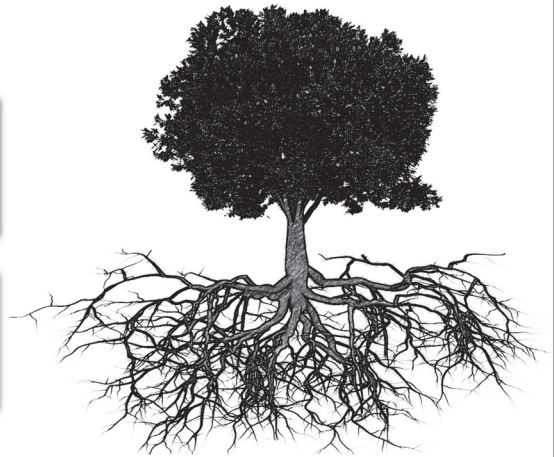
- Headstock
- Toolrest
- Bed
- Tailstock
- Forked centre



14. Give **two** functions of tree roots.

FUNCTION 1

FUNCTION 2



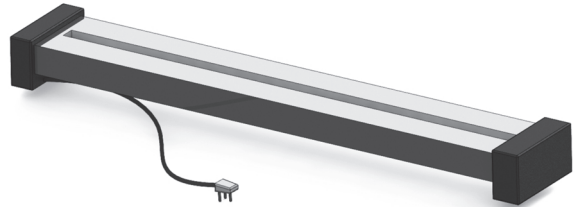
15. The diagram on the right shows a handbag that has been made from wood.

List **one** property of wood which makes it suitable for this use.



PROPERTY

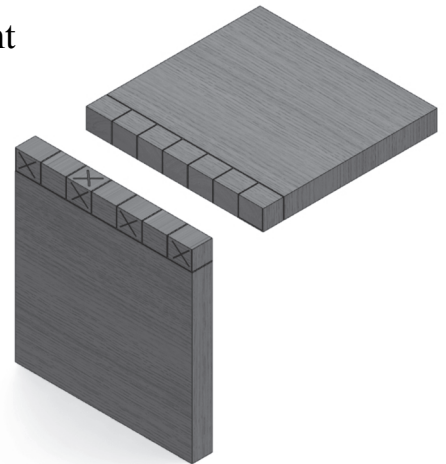
16. The diagram shows an electric strip heater similar to those used in an MTW room.



Give **one** specific use for this heater.

USE

17. Complete the marking out of the waste on the finger joint shown in the diagram.

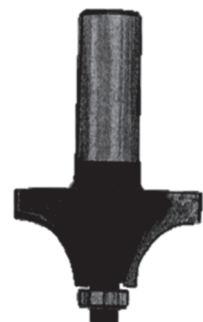


18. What liquid is normally used to clean a brush after applying an oil-based varnish?



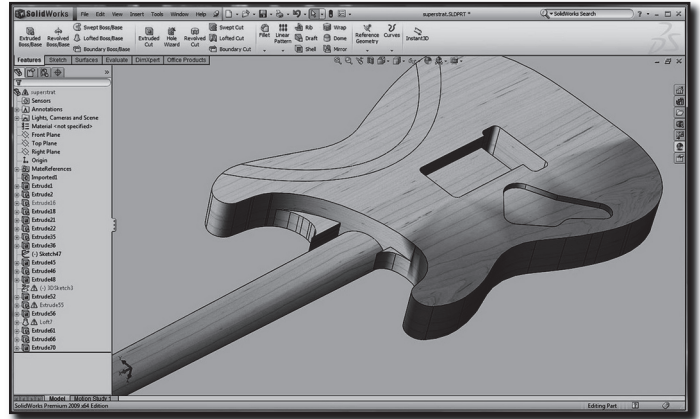
ANSWER

19. The bit shown in the diagram is used in an electric power tool.
Name the power tool.



NAME

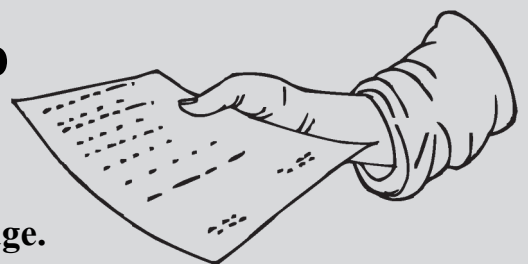
20. Give **one** reason why wooden projects are often modelled on a computer before being made.



ANSWER

**This booklet must be handed up
at the end of the examination.**

Ensure your Examination Number is on the front page.



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