

Junior Certificate Examination 2005

Materials Technology Wood Ordinary Level Section A (40 Marks)

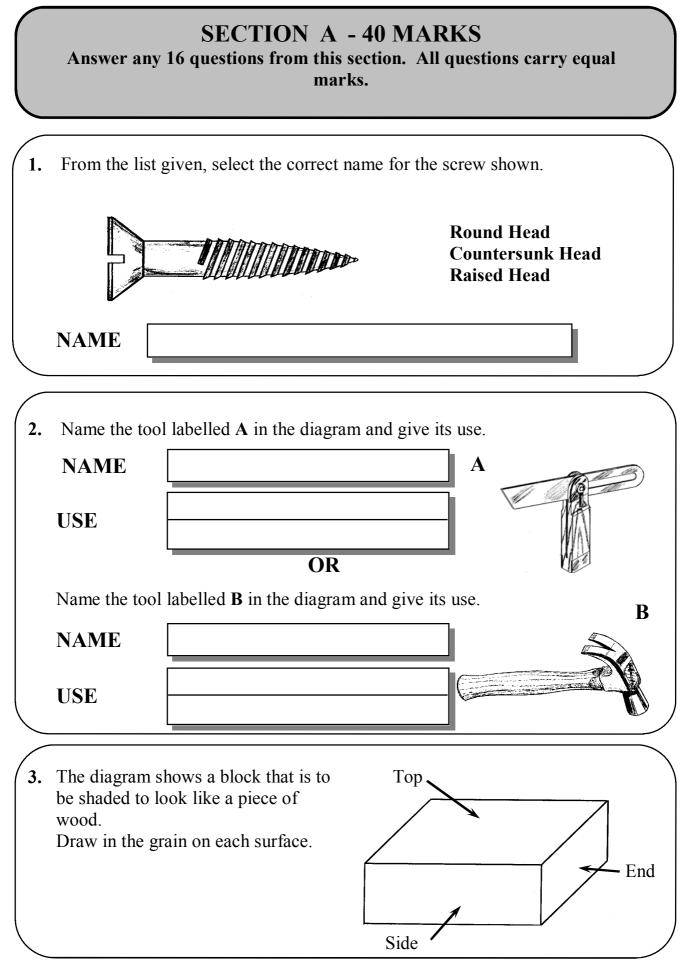
Monday 20 June Afternoon, 2.00 to 4.00

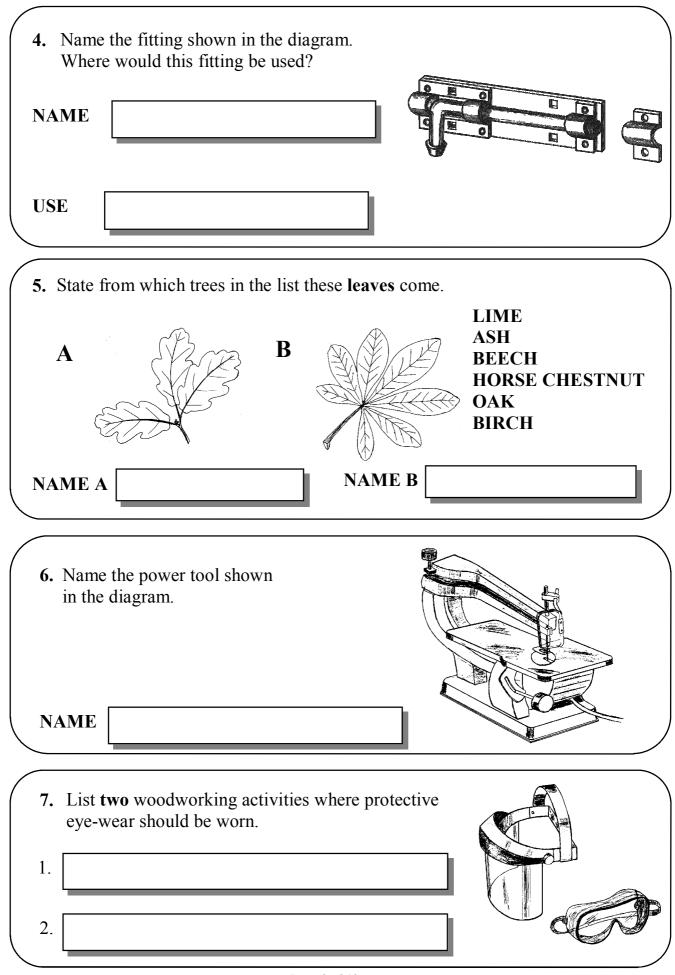
Instructions

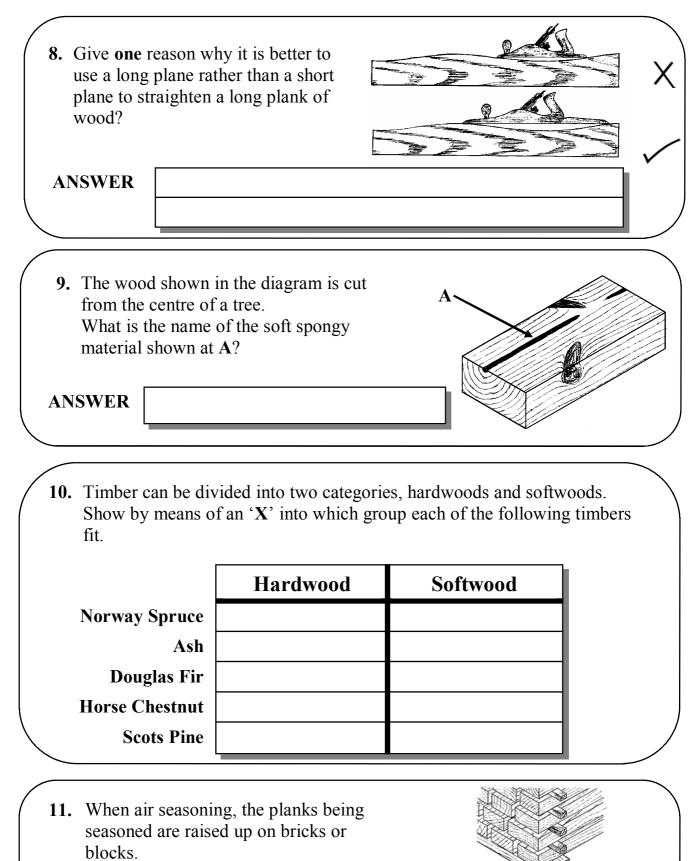
- (a) Answer any sixteen questions.
- (b) All questions carry equal marks.
- (c) Answer the questions in the spaces provided.
- (d) This booklet **must** be handed up at the end of the examination.
- *(e)* Write your examination number in the box provided and on all other pages used.

Examination Number:

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

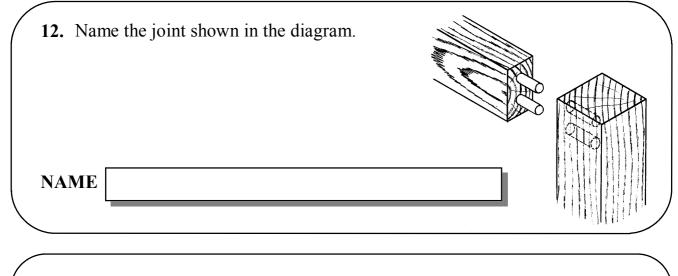


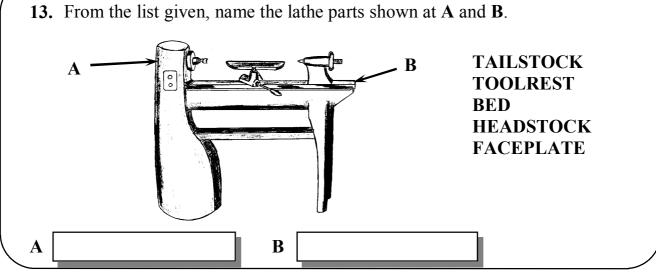


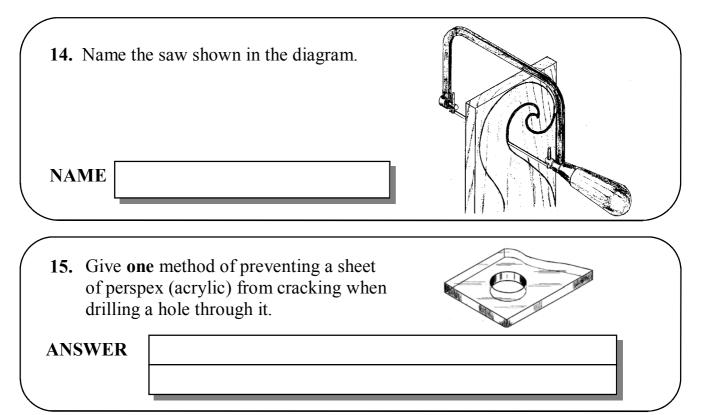


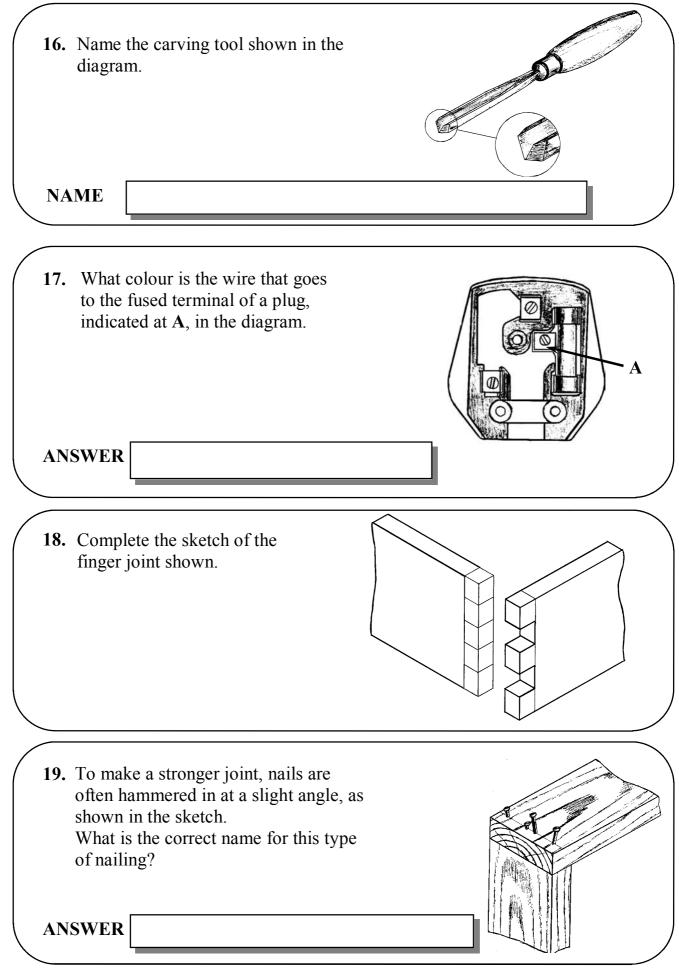
Why is this important?

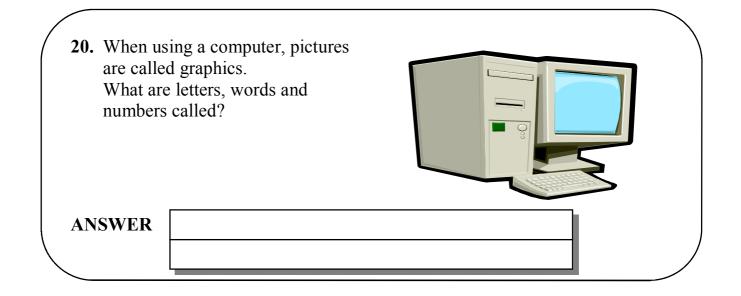
ANSWER











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

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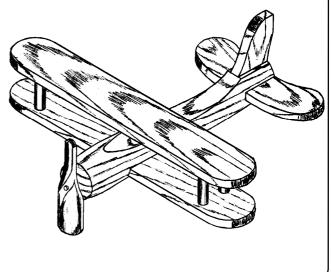


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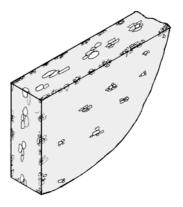
Materials Technology Wood Ordinary Level Section B (60 Marks)

Instructions

- (a) Answer any three questions. All questions carry equal marks.
- (b) Where sketches are required they may be done freehand or on the graph paper provided.
- (c) Write your examination number on the answer book and on all other pages used.
- 1. The diagram shows a toy plane. The lower wing at the front and the smaller wing at the back pass through the plane body.
- (i) Describe, using notes and sketches, how the hole should be made in the plane body to allow the large wing to pass through it.
- (ii) Describe, using notes and neat freehand sketches, how the large wings could be cut out and shaped.
 Name **three** tools used in this process.
- (iii) Suggest a suitable applied finish for the project after it has been sanded properly. Give two reasons for your choice.



- 2. The diagram shows a pictorial drawing of a spice rack. All material is **20mm** thick. Dowel **20mm** diameter. (i) Draw, full size, a **Front** Elevation looking in the 240 direction of arrow A. G (ii) Project an End Elevation from this view. 2 Show the centre for the hole. 10 в \bigcirc 5 (iii) Include four main dimensions on the drawing, showing clearly dimension lines and arrowheads.
 - **3.** The diagram shows a piece of chipboard.
 - (i) Name two other types of manufactured boards. In the case of any one of these, describe using notes and sketches how the board is made.
 - (ii) Cut edges of chipboard look unattractive. Describe, using notes and sketches, a method commonly used to cover these edges.



(iii) List three advantages that manufactured boards have over solid wood.

4. Answer either A or B Sycamore-The diagram shows four pieces of wood glued together. The wood will be used to make the stem of a lamp. (i) Describe, using notes and diagrams, Mahogany three steps that should be taken to further prepare this block of wood for mounting on the lathe. (ii) Name any **two** turning tools. Make a neat diagram of each and describe what each tool is used for. Stem (iii) The base and stem of the lamp shown are to be made separately. Using a sketch, suggest a method of jointing Base these together.

OR

(i) Describe, using notes and sketches, how the house number and leaf design could be transferred from paper onto the wood.
(ii) Suggest a suitable tool to carve this design. Make a neat diagram of this tool.
(iii) The completed project is to be coated with three coats of varnish. Describe the steps involved in applying this finish.

- 5. The diagram shows a storage box for books and toys to be used in a child's bedroom.
- (i) Describe, using notes and sketches, how the design of the box and lid could be changed to make it look like a treasure chest.
- (ii) Using notes and sketches show how hand grips could be cut / shaped into the sides of the box.
- (iii) Using notes and sketches describe two ways in which the box could be decorated to improve its appearance.

