Coimisiún na Scrúduithe Stáit State Examinations Commission

S53a

Junior Certificate Examination, 2003.

Materials Technology (Wood)

8440

Monday 16 June - Morning 9.30 - 11.30

Section A - Ordinary Level.
40 marks.

Examination number	

INSTRUCTIONS

- 1. Answer any 16 questions from this section. All questions carry equal marks.
- 2. Answer questions in the spaces provided.
- 3. Write your examination number in the box provided and on all other pages used.
- 4. This booklet must be handed up at the end of the examination.

FOR EXAMINERS U	SE
SECTION A - TOTAL	
1.	
2.	
3.	
4(a) or 4(b).	
5.	
Overall Total	

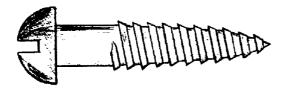
Centre number.	

THIS BOOKLET MUST BE HANDED UP

SECTION A - 40 MARKS

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

1. From the list given, select the correct name for the screw shown.



Raised head screw Round head screw Countersunk head screw

NAME

2. Name one of the tools labelled A and B in the diagram and give its use.

A NAME

A

USE



OR

NAME

B

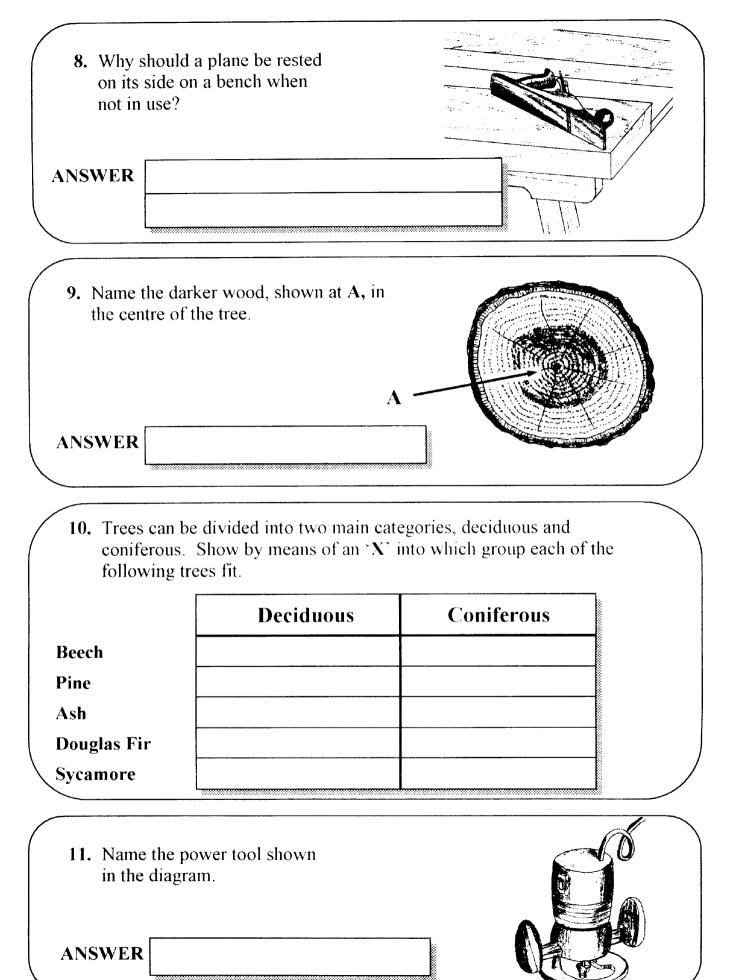
USE

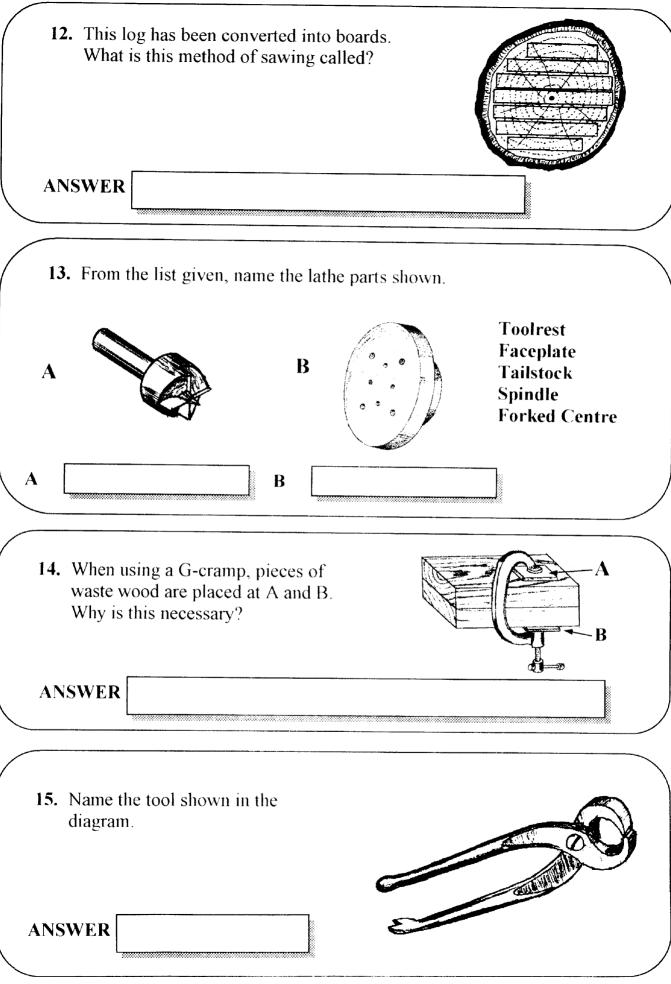


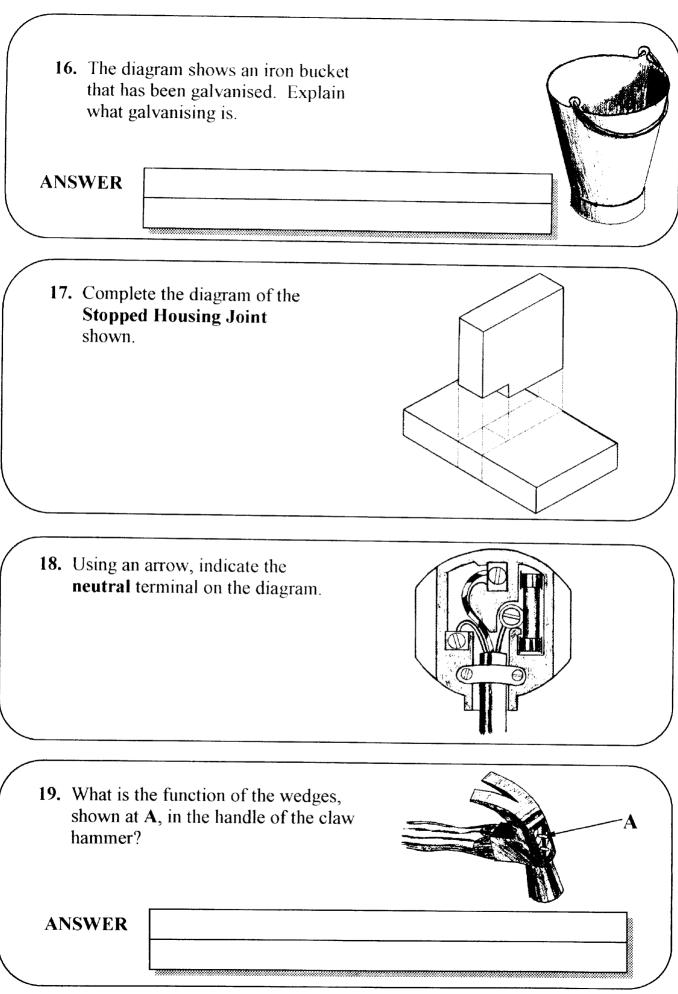
3. The diagram shows a piece of wood. Draw the Face Side and Face Edge marks in their proper place on this sketch.

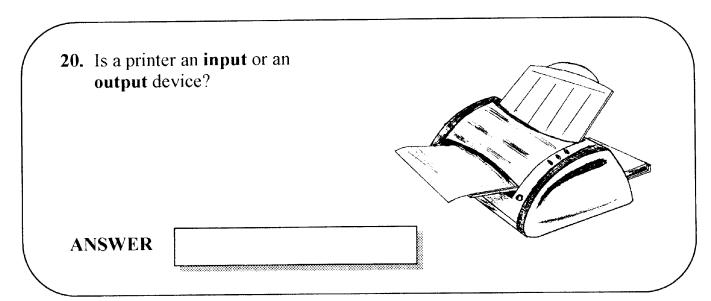


NAME				0110
USE				
5. State wh	ich trees in the	list these le	eaves come from	n. SYCAMORE ASH LIME HORSECHESTNUT OAK HOLLY
· ·				HOLLI
NAME A			NAME B	
6. Why is	oil put on an oning the blade only		O:1	<i>b b c d d d d d d d d d d</i>
6. Why is sharpe	ning the blade of		O:1	
6. Why is sharper or chis	ning the blade o	of a plane	O:1	









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

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Coimisiún na Scrúduithe Stáit State Examinations Commission

S53b

Junior Certificate Examination, 2003.

Materials Technology (Wood) 9660 Monday 16 June - Morning 9.30 - 11.30

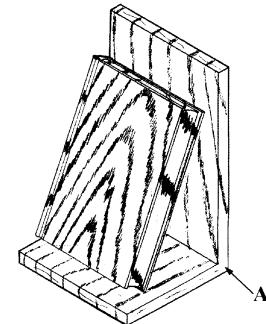
Section B - Ordinary Level.

60 marks.

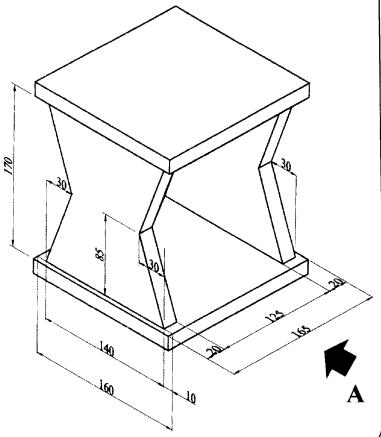
INSTRUCTIONS

- 1. Answer any THREE questions from this section. All questions carry equal marks.
- 2. Where sketches are required, they may be done freehand or on the graph paper provided.
- 3. Write your examination number on the answer book and on any other sheets used.
- 1. The diagram shows a book-end which is used to hold books upright on a shelf.
- (i) The block of wood for the book is to be shaped to look like a hard backed book. Describe using notes and neat freehand sketches how you would shape the block of wood to form the back of the book, the pages and the cover.
- (ii) Describe, using notes and neat freehand sketches, how the two pieces of wood could be joined at the corner A.Name three tools used in this jointing process.
- (iii) The project is to be varnished.

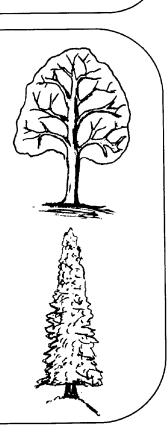
 Describe in detail the steps involved in sanding and varnishing this project.



- 2. The diagram shows a pictorial drawing of a letter rack. All material is 15mm thick.
- (i) Draw, full size, a Front Elevation looking in the direction of arrow A.
- (ii) Project an **End Elevation** from this view.
- (iii) Include **four** main dimensions on the drawing, showing clearly dimension lines and arrowheads.



- 3. (i) Ash is a deciduous tree that grows in Ireland. Name **two** other types of deciduous tree which grow in this country.
 - (ii) Describe, using notes and neat freehand sketches, **four** characteristics of deciduous trees.
 - (iii) Norway Spruce is a coniferous tree that grows in Ireland. Name **two** other types of coniferous tree which grow in this country.
 - (iv) Describe, using notes and neat freehand sketches, **four** characteristics of coniferous trees.

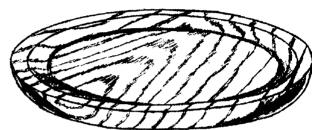


4. Answer either A or B



The diagram shows a wooden tray which has been turned on a lathe.

- The tray is to be made from a large square of wood of 40mm thickness. (i) Describe using notes and sketches the steps involved in shaping the wood and mounting it on the faceplate before turning begins.
- Suggest a suitable finish for this (ii) project, giving reasons for your choice. Explain, in detail, how this finish would be applied.



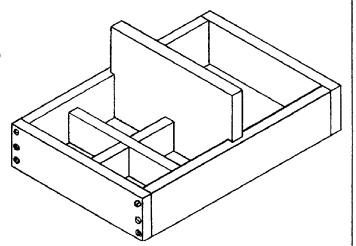
List two safety rules that should be (iii) followed when sanding a piece of work on the lathe.

OR

- The diagram shows a low table with a veneered top which includes a B. chess/draughts board.
 - (i) Using notes and neat freehand sketches describe how veneers are cut from logs.
 - Recommend a suitable adhesive (ii) for veneering. Give two reasons for your choice.
- Name a suitable material for (a) the table top (iii)

 - (b) the dark squares on the chessboard
 - (c) the light squares on the chessboard.

- 5. The diagram shows a tray designed to hold tools, with a section for nails and screws.
- (i) Show by means of notes and sketches how the central divider could be re-designed to form a handle.
- (ii) Using notes and neat freehand sketches describe how you would cut out and shape this handle.



(iii) The project is to be made from M.D.F. Give **three** reasons why this is a good choice of material.