



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Junior Cycle Final Examination 2026

Wood Technology

Common Level

Thursday 11 June Afternoon 1:30 - 3:00

120 marks

Examination Number

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Date of Birth

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For example, 3rd February
2005 is entered as 03 02 05

Centre Stamp

Instructions

Answer all questions.

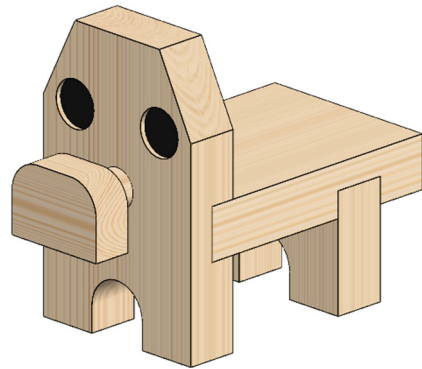
Write your answers in blue or black pen. You may use pencil for sketches and drawings only.

Write your answers in the spaces provided in this booklet. There is space for extra work at the end of the booklet. Label any such extra work clearly with the question number and part.

This examination booklet will be scanned and your work will be presented to an examiner on screen. Anything that you write outside of the answer area may not be seen by the examiner.

Question 1

The image shows a glasses holder which is made from Scots pine, an Irish grown softwood.



- (a) (i) Trees are divided into two groups: hardwoods and softwoods.

Using a tick (✓) indicate which of these groups the words on the left best relate to.

Trees	Hardwoods	Softwoods
Generally slow growing		
Broad leaves		
Seeds are found in pine cones		

- (ii) The images show the leaves of three common Irish trees. From the following list, identify **each** tree leaf.

Scots Pine, Sycamore, Beech

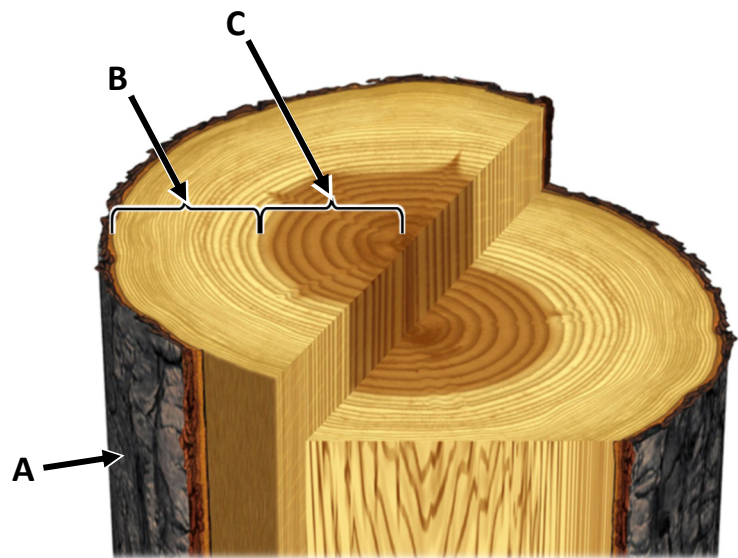


- (iii) Food for a tree is produced in its leaves by a process called photosynthesis.

Name any **two** of the raw materials necessary for photosynthesis to take place in a leaf.

1:	
2:	

- (b) The image shows a cross-section of a tree trunk.



- (i) Name the parts labelled **A**, **B**, and **C**.

A:
B:
C:

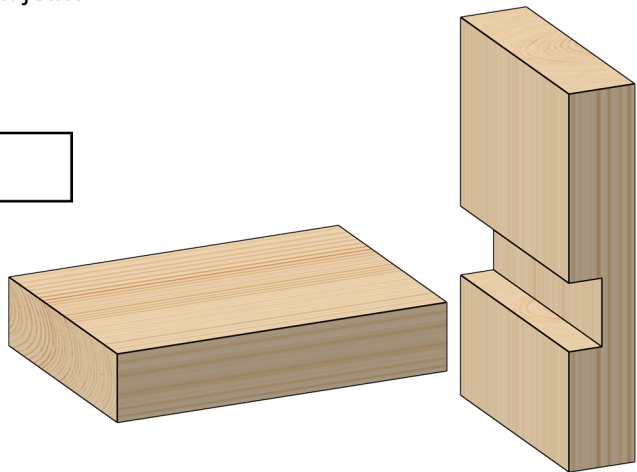
- (ii) State **one** function for each part labelled **A**, **B**, and **C** above.

Function of A:
Function of B:
Function of C:

- (c) The image on the right shows the woodwork joint used in the glasses holder.

(i) Name the joint shown.

Name:



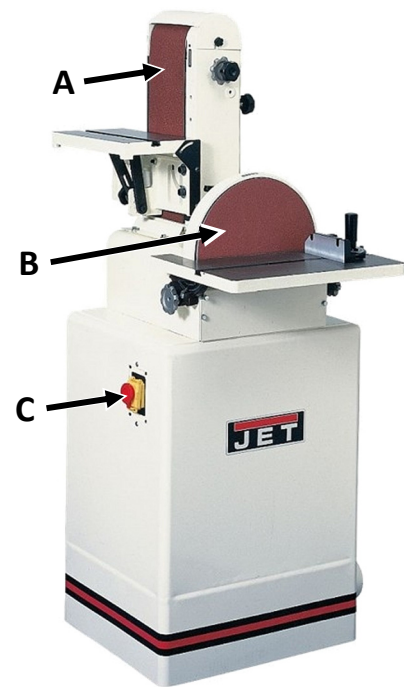
(ii) Describe, using notes and sketches, how the trench for the joint could be removed.

Sketch:

- (d) The image shows a sanding machine used to prepare the wood for an applied finish.

- (i) Name the parts of the sanding machine labelled A, B, and C.

A:
B:
C:



- (ii) Give **one** advantage of using a sanding machine to sand wood.

Advantage:

- (iii) List **two** specific safety precautions that should be observed when using a sanding machine.

Precaution 1:
Precaution 2:

Question 2

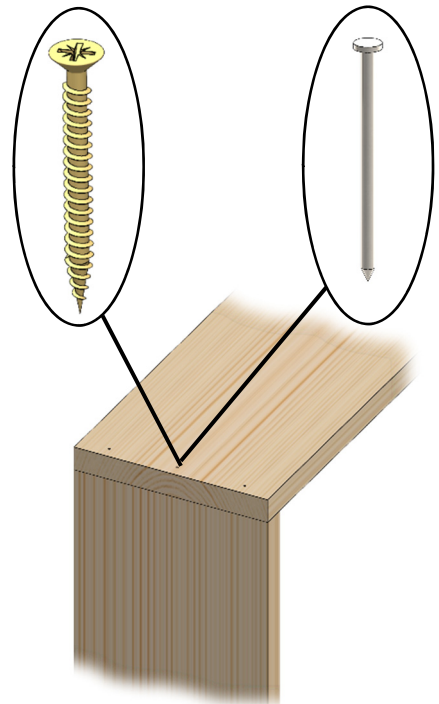
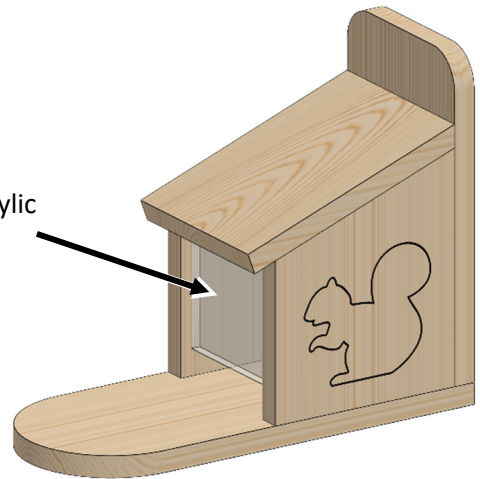
The image on the right shows a squirrel feeder which is made from wood and has a clear acrylic panel.

- (a) The feeder is to be assembled using either nails or screws.

Give **one** advantage of using nails and **one** advantage of using screws to assemble the feeder.

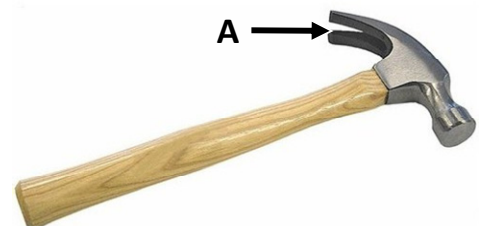
Advantage of nails:
Advantage of screws:

Clear acrylic panel



- (b) (i) The image shows the tool used to insert the nails.
Name the tool.

Name:



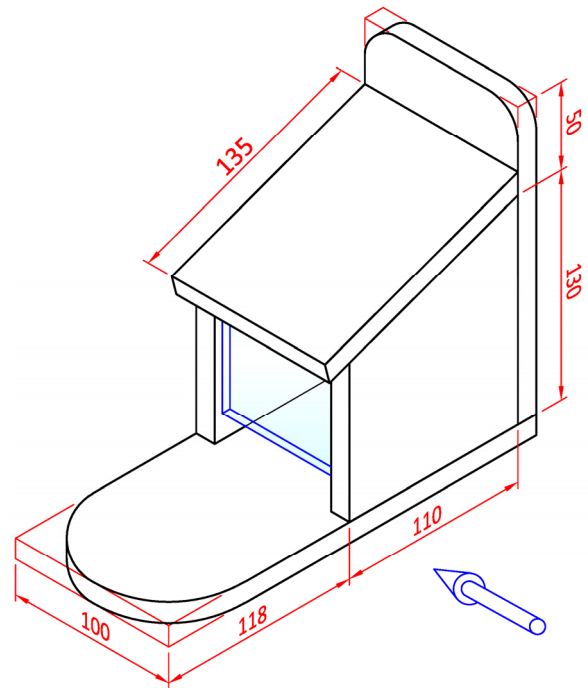
- (ii) State the function of the part, labelled A, on the tool.

Function:

(c) The image shows a dimensioned drawing of the feeder.

(i) In the space below, draw a neat freehand sketch of the **elevation** of the feeder looking in the direction of the arrow.

Note: All wood material is 12 mm thick.
Hidden detail is not required.

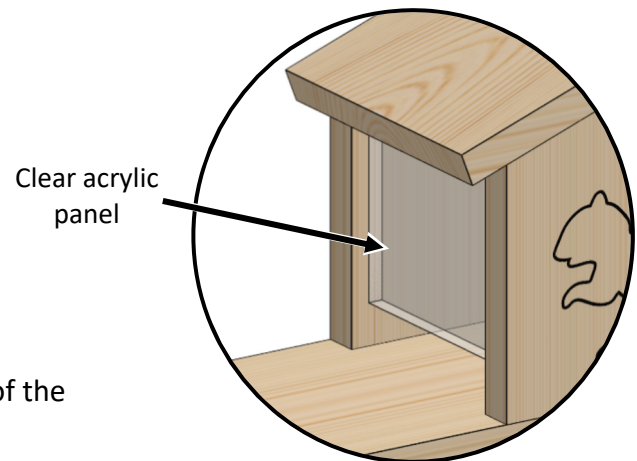


Elevation sketch:

(ii) Complete the cutting list for the given feeder in the table below.

Description	Quantity	Length	Width	Thickness
Base	1		100	12
Back	1		100	12
Side	2	130	110	12
Roof	1	135		12
Clear acrylic panel	1	80	80	3

- (d) The front of the squirrel feeder is to have a clear acrylic panel, as shown.



- (i) Indicate with a tick (✓) whether each of the following statements is true **or** false.

Plastics	True	False
Acrylic is a thermosetting plastic		
Thermoplastics can be reheated and reshaped		
Plastics can be harmful to the environment		

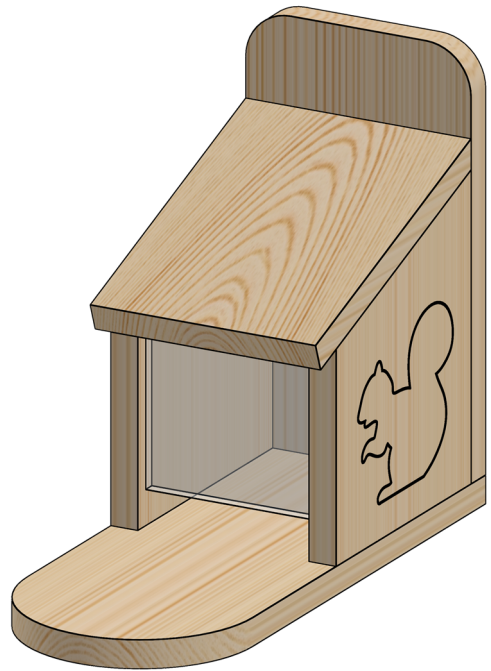
- (ii) Describe, using notes and sketches, how the acrylic panel could be secured into the sides of the feeder.

Sketch:

- (e) A preservative is to be applied to the wood used to make the feeder.

- (i) Name a suitable wood preservative that could be applied to the feeder.

Name:



- (ii) Give **two** reasons why a preservative should be applied to the wood.

Reason 1:

Reason 2:

- (iii) List **two** methods of applying a preservative to the wood.

1:

2:

Question 3

The image on the right shows an initial design idea for a key rack.

The key rack consists of a wooden frame and an insert panel decorated with veneers cut in the shape of a heart.

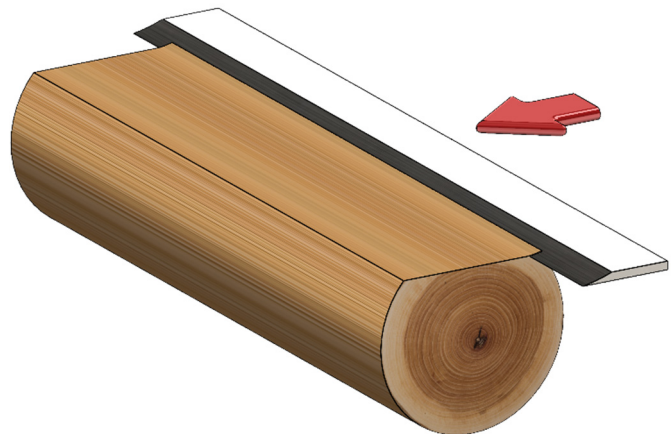


- (a) (i) Name the veneering woodcraft technique used to make the heart shape.

Woodcraft Technique:

- (ii) Veneers are cut from a tree log as shown.

Name this method of cutting veneers.



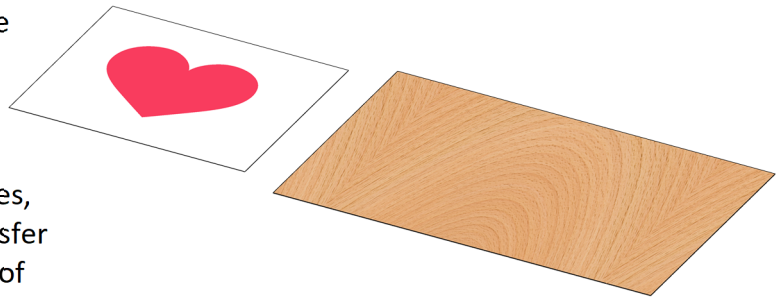
Name:

- (iii) Give **two** reasons for using veneers instead of solid wood in Wood Technology.

Reason 1:

Reason 2:

- (b) The image shows a veneer for the insert panel of the key rack and a sheet of paper with the heart shape.

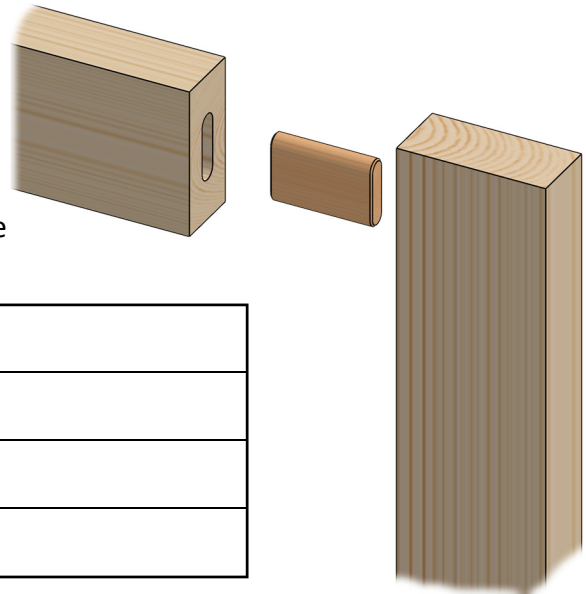


Describe, using notes and sketches, **two** of the steps required to transfer the heart outline from the sheet of paper to the veneer.

Step 1:

Step 2:

- (c) The image on the right shows a domino joint which is being considered to join the frame of the key rack.



- (i) Give **one** advantage and **one** disadvantage of using this joint.

Advantage:
Disadvantage:

- (ii) Name and sketch **one** other possible joint that could be used to join the frame.

Name:
Sketch:

- (iii) The image shows an accessory used with a domino jointer.
Name this power tool accessory.

Name:



(d) Using a rendered sketch with annotations to communicate your idea, design a wall-mounted key rack which will:

- hold keys
- display household reminders
- include an enclosed storage compartment.



Sketch:

Question 4

The image shows a decorative panel which is made using a number of different pieces of solid wood.

- (a) The panel is made by cutting different shapes in wood and assembling the pieces to create the duck design, as shown.

Use a tick (✓) to identify the woodcraft technique shown.

Intarsia

☐

Laminating

☐

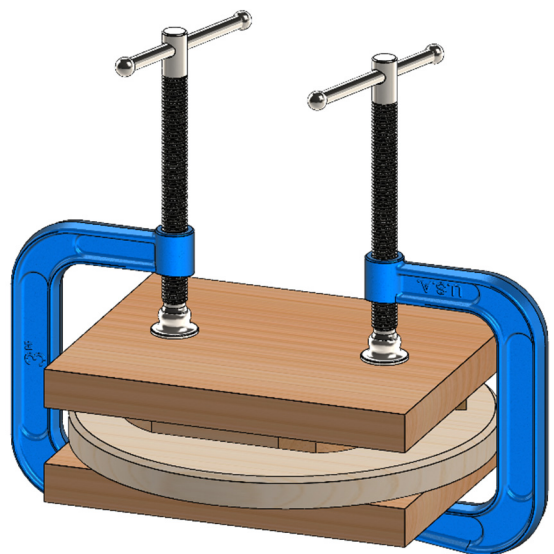
- (b) Name **one** suitable adhesive that could be used in the assembly of the panel.

Name:



- (c) Name the tool shown, used when assembling the decorative panel.

Name:



- (d) The wood used in the decorative panel needs to be seasoned.

- (i) The image shows a method of seasoning wood.

Name this method.

Name:

- (ii) Give **one** advantage and **one** disadvantage of this method of seasoning wood.

Advantage:

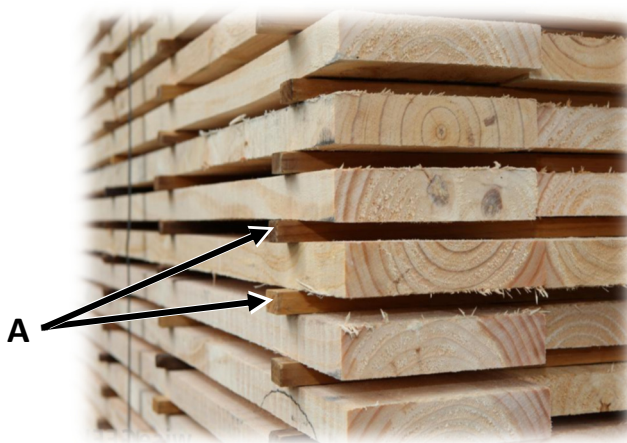
Disadvantage:

- (iii) Name **one** other method of seasoning wood.

Name:

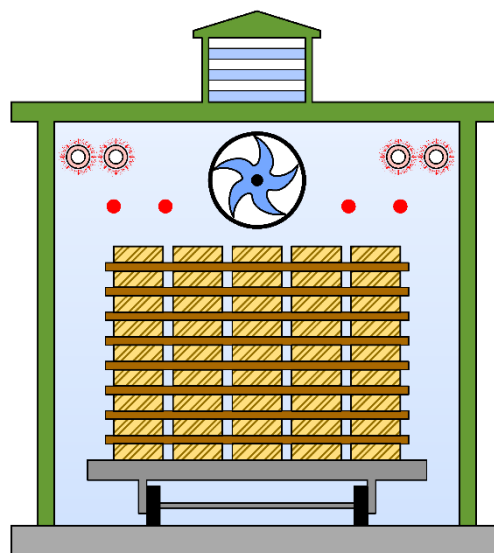
- (iv) The image shows wooden boards which have been stacked for seasoning.

Name and describe the function of the pieces of wood, labelled **A**, placed between the boards.



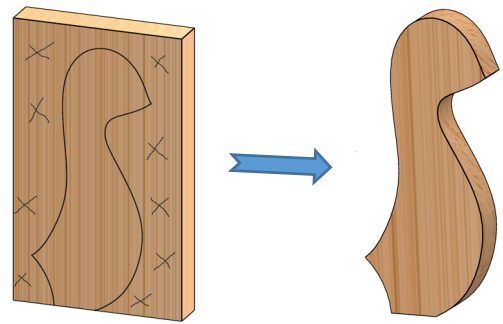
Name:

Function:



- (e) The image opposite shows a piece of wood with the outline of the duck's neck marked out. The wood is to be cut out, as shown on the right.

With the aid of notes and sketches, describe **two** of the steps required to shape the piece of wood into the duck's neck.



Step 1:

Step 2:

[illegible]

Acknowledgements

Images

Image on page 3: <https://www.species.biodiversityireland.ie/profile.php?taxonId=29211>

Image on page 3: <https://www.indiamart.com/proddetail/pine-black-oil-2850890238288>

Image on page 3: <https://species.biodiversityireland.ie/profile.php?taxonId=28773>

Image on page 4: <https://www.britannica.com/science/wood-plant-tissue/Wood-as-a-material>

Image on page 6: <https://www.machinery4wood.co.uk>

Image on page 7: <https://www.marchesironmongery.co.uk>

Image on page 13: <https://www.stokker.com>

Image on page 14: <https://www.istockphoto.com/photo/sticky-notes-cube-gm491960655-40047750>

Image on page 14: <https://www.facebook.com/isalockandkey/>

Image on page 15: <https://www.amcolhardwarett.com/product-1127/evostik-wood-adhesive-125ml.php>

Image on page 16: <https://blkcommodities.com>

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Wood Technology

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