



Coimisiún na Scrúduithe Stáit
State Examinations Commission

Leaving Certificate Examination 2025 Technology

Section A and Answerbook

Ordinary Level

Monday 23 June Afternoon 2:00 - 4:00

160 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

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Instructions

Write your Examination Number and your Date of Birth in the boxes on the front cover.

Write your answers to all parts of the examination into this answerbook. This answerbook will be scanned and your work will be presented to an examiner on screen. Anything that you write outside of the answer areas may not be seen by the examiner.

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

There are three sections in this examination. Attempt **all three** Sections.

Questions for Sections B and C are supplied separately but your answers must be written in this answerbook.

Section A 72 marks
Core – Short-answer questions.
Answer **any nine** questions in this section.
Each question carries 8 marks.

Section B 48 marks
Core – Long-answer questions.
Answer the **two** core questions presented.
Each question in Section B carries 24 marks.

Section C 40 marks
Options – Long-answer questions.
Answer **one** of the five optional questions presented.
Each question in Section C carries 40 marks.

Section A.

Answer **any nine** questions. All questions carry 8 marks.

Write your answers in the spaces provided.

1. The machine shown is commonly used in Technology workshops.

(i) Name the machine.

(ii) State **two** safety precautions which should be observed when using this machine.

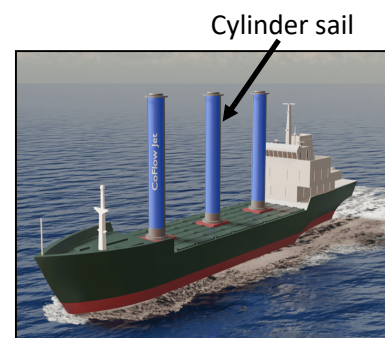
1.
2.



2. Giant cylinder sails can cut the fuel consumption of cargo ships by up to 90%. They work by pulling in air, pressurising it, and pushing it out in another direction to create thrust.

(i) State **two** advantages of using this system.

1.
2.



(ii) Suggest **one** possible disadvantage of using these cylinder sails.

3. The safety sign shown is commonly used in everyday life.

(i) State the meaning of the safety sign shown.



(ii) Explain what is meant by safety signs that are **red** in colour.

4. In the box provided, sketch a well-proportioned elevation of the toy when viewed in the direction of arrow **A**.



5. The image shows a resistor commonly used in electronics.

- (i) State the function of a resistor in a circuit.



- (ii) A voltage of 9 V is applied across a resistor of 100 Ω .
Calculate the current flowing through the resistor.

Calculation:

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6. The image shows a structure used in the construction of a warehouse.

- (i) Name this type of structure.

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- (ii) *Struts* and *ties* are commonly used when putting these structures together.
Outline what is meant by a strut and what is meant by a tie when referring to structures.



Strut:

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Tie:

7. The image shows a clear *lacquer* finish applied to a wooden product.

(i) State **two** advantages of applying a lacquer finish to wood.

1:
2:



(ii) Outline **one** precaution that should be observed when applying a lacquer.

8. The image shows a wooden cup holder that rests on the arm of a sofa.

(i) Name a suitable softwood from which to make the cup holder.

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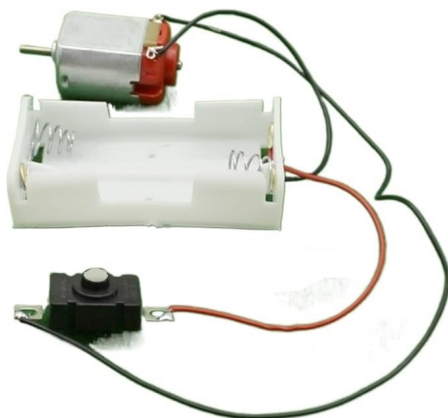


(ii) List **three** steps required to manufacture the cup holder.

1.
2.
3.

9. The image shows a DC motor, a push-to-make switch, and a battery box connected to form a simple circuit.

In the space provided, sketch a circuit diagram for this circuit.



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10. ICT (Information and Communications Technology) is used daily in schools for communication, learning, and accessing information.

Name **two** forms of ICT you have used and state the purpose of using each.

ICT:
Purpose:

ICT:
Purpose:

11. The mechanism shown below is widely used in industrial machines.



- (i) Name the mechanism.

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- (ii) Outline **two** advantages of using this mechanism.

1.
2.

12. Use **two** graphic techniques to enhance the representation of the coffee cup shown.



Answerbook for Sections B and C

Instructions

Questions for **Sections B** and **C** are supplied separately.

Start each question on a new page. Write the question number in the box at the top of each page.

Use the left-hand column to label each part, as shown below.

Part	Question
(a)	04
(b)(i)	
(b)(ii)	

You do not need to use all of the pages in this answerbook. If you run out of space in this answerbook, you may ask the superintendent for more paper.

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

Part

[illegible]

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Part

[illegible]

Part

[illegible]

Part

[illegible]

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Part

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Part

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Part

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Part

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Part

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Part

[illegible]

Part

[illegible]

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Part

[illegible]

Part

[illegible]

Part

[illegible]

Acknowledgements

Images

Question 1

<https://www.machineryhouse.co.nz/w4330>

Question 2

<https://interestingengineering.com/transportation/giant-cylinder-sails-cut-fuel-cargo-ships>

Question 3

<https://www.safetydirect.ie/dependable-no-photography-symbol-signs.html>

Question 4

<https://www.terenureofficesupplies.ie/2work-mini-2-step-ladder-l2--5>

Question 6

<https://usframing.com/2022/03/22/pros-and-cons-of-steel-frame-construction/>

Question 7

<https://www.indiamart.com/proddetail/clear-lacquer-top-coat-12563397462.html?mTd=1>

Question 8

<https://ie.pinterest.com/pin/177399672810806915/>

Question 9

<https://www.amazon.de/-/en/BGNERY-Skills-Battery-Switch-Motors/dp/B0BY1ZGPTB>

Question 10

<https://best-engineering-goods-online.weebly.com/chains-and-sprockets.html>

Question 11

<https://www.exportersindia.com/product-detail/v-belt-patta-pulley-6433425.htm>

Question 12

https://www.iconfinder.com/icons/10674016/svg_coffee_cup_cardboard_takeaway_takeout_icon

Do not write on this page

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Technology Section A and Answerbook

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