



*Leaving Certificate Examination*

***Technology***  
***Ordinary Level***

***Friday, 19 June***  
***Afternoon, 2:00 - 4:00***

There are **three** Sections in this paper. Attempt **all three** Sections.

**Section A:** Core - Short-answer questions.

**Section B:** Core - Long-answer questions.

**Section C:** Options - Long-answer questions.

***Section A - Core*** (72 marks)

***Instructions:***

- (a) Answer **any nine** questions in the spaces provided.  
All questions in Section A carry 8 marks.
- (b) Draw all sketches in pencil.
- (c) Hand up this booklet at the end of the examination.
- (d) Write your examination number in the box provided  
and on all other pages used.

<b>Centre Number</b>

<b>Section</b>	<b>Mark</b>
Section A	
Section B	
Section C	
Total	
Grade	

***Examination Number:***

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

**1.**

(i) What is the function of an Operating System (OS) on a computer?

Function: \_\_\_\_\_

\_\_\_\_\_

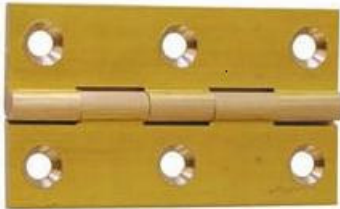
(ii) Name two operating systems that are used on modern computers.

1. \_\_\_\_\_

2. \_\_\_\_\_



**2.**



A brass hinge used for an external door is shown. State **two** reasons why brass is a suitable material for this hinge.

1: \_\_\_\_\_

2: \_\_\_\_\_

The holes in this hinge have been *countersunk*. Outline **one** reason for countersinking.

\_\_\_\_\_

\_\_\_\_\_

**3.**

Name **one** energy conversion that takes place in a wind turbine.

Conversion: \_\_\_\_\_

Give **one** example of each of the following kinds of energy source:

Renewable: \_\_\_\_\_

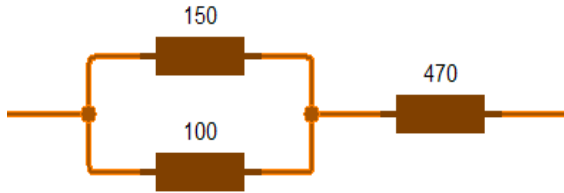
Non-renewable: \_\_\_\_\_



4. State a function of a resistor.

Function: \_\_\_\_\_

Calculate the total resistance (**R**) in the following resistor combination.



(**R**): \_\_\_\_\_

5.

What is the purpose of *Evaluation* in relation to project manufacture?

Evaluation: \_\_\_\_\_

\_\_\_\_\_

List **two** questions that might be asked about a project at this stage.

Question 1: \_\_\_\_\_

Question 2: \_\_\_\_\_

6. Identify the type of structure in the graphics **A** and **B**.

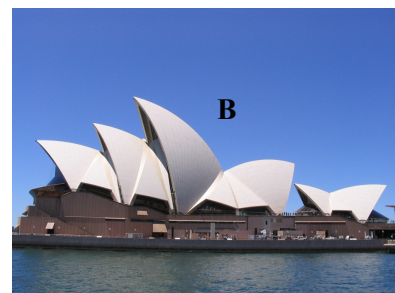
A: \_\_\_\_\_

B: \_\_\_\_\_

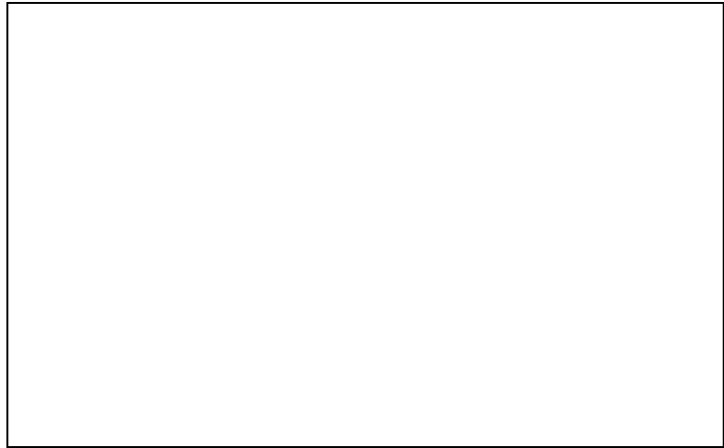
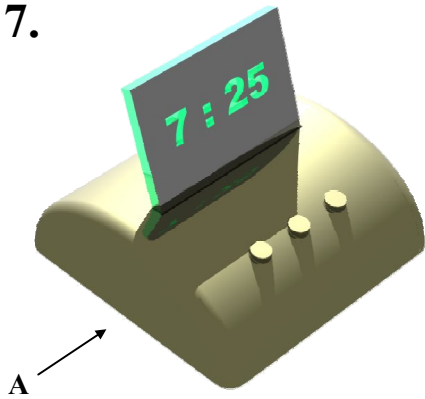
Forces act on structures in various ways. Name the force acting on a *strut* and the force acting on a *tie*.

Strut: \_\_\_\_\_

Tie: \_\_\_\_\_



7.



In the box provided, make a well proportioned 2D sketch of the alarm clock when viewed in the direction indicated by arrow A.

8. Corn starch is a new *biodegradable* material used in food packaging.

Explain the term biodegradable.

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State **two** advantages of using a biodegradable material in packaging manufacture.

1: \_\_\_\_\_

2: \_\_\_\_\_

9.

Explain what the CE mark on products represents.

CE Mark: \_\_\_\_\_

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**10.**

The TV remote control holder shown is to be manufactured from a single piece of acrylic.  
List **four** main steps required to manufacture this item.

- 1: \_\_\_\_\_
- 2: \_\_\_\_\_
- 3: \_\_\_\_\_
- 4: \_\_\_\_\_



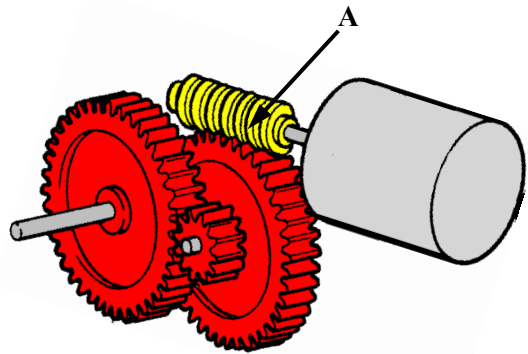
**11.**

Name the gear arrangement at A.

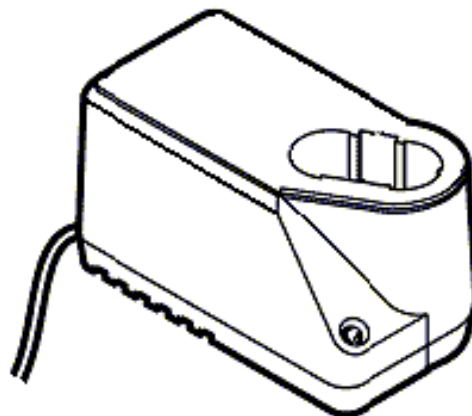
A: \_\_\_\_\_

Outline **two** advantages of using this arrangement in project work.

- 1: \_\_\_\_\_
- 2: \_\_\_\_\_



**12.** Use **two** graphic techniques to enhance the graphic representation of the battery charger shown.



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