

2019 - 2020

2<sup>nd</sup> year

Materials Technology Wood  
Practice Summer Assessment



Ms Power

Answer any 2 of the 3 Questions provided

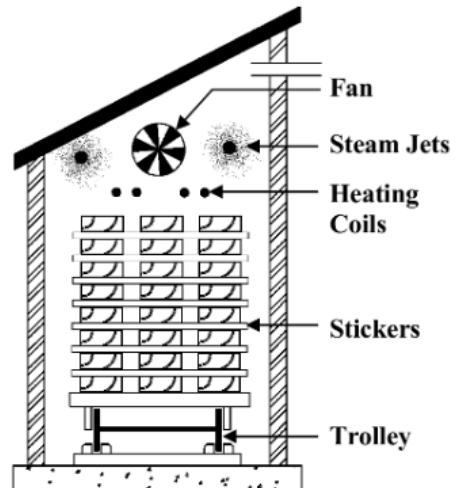
*Complete your work and photograph, then send  
to [roisinpower@kwetb.ie](mailto:roisinpower@kwetb.ie)*

1 The diagram on the right shows one method of seasoning timber to reduce its moisture content.

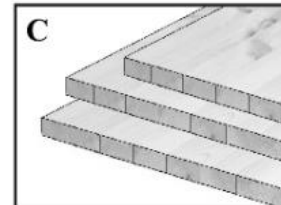
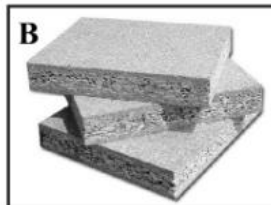
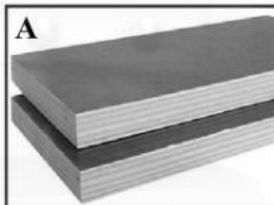
- (i) What is the correct name for this method of seasoning?
- (ii) Explain what happens during the seasoning process, making particular reference to the function of the parts labelled in the diagram.
- (iii) Name **ONE** other method of seasoning timber.

State **TWO** advantages and **TWO** disadvantages of this second method of seasoning.

- (iv) The diagram on the right shows a board which warped badly during seasoning. Explain why this might have happened and, using notes and a *neat freehand sketch*, show how the warping might have been prevented.



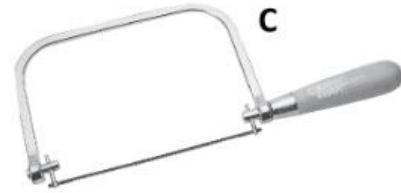
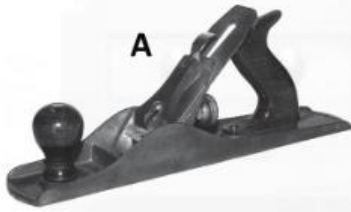
2 (i) Name the **THREE** manufactured boards labelled A, B, and C below.



- (ii) Briefly explain **FOUR** advantages that manufactured boards have over solid wooden boards.
- (iii) With the aid of notes and *neat freehand sketches* describe, in detail, the manufacture of **ONE** of the above boards.
- (iv) Deforestation of our tropical rainforests is an important environmental issue. With reference to protection and conservation:
  - (a) State **TWO** reasons why we should conserve our tropical rainforests
  - (b) State **TWO** ways that the use of manufactured boards can help reduce the current rate of global deforestation.

3

- (i) State the correct name for **each** of the specialist tools labelled **A**, **B** and **C** below.



- (ii) With the aid of notes and *neat freehand sketches*, describe how the tool labelled **A** would be **set** and **used**.
- (iii) With the aid of notes and *neat freehand sketches*, describe how the tool labelled **B** would be **set** and **used**.
- (iv) The diagram shows a **Corner Dovetail Joint**. With the aid of notes and *neat freehand sketches*, describe how to **mark out** and **remove** the waste from piece **S**.

