



***Pre-Junior Certificate Examination, 2016***

***Materials Technology (Wood)***

***Higher Level***

***Section A (40 marks)***

***Time: 2 hours***

**STUDENT'S NAME** 

**SCHOOL'S NAME** 

**TEACHER** 


***Instructions***

- (a)** Answer any **sixteen** questions.
- (b)** All questions carry equal marks.
- (c)** Answer the questions in the spaces provided.
- (d)** This booklet **must** be handed up at the end of the examination.
- (e)** Write your name, your school's name and your teacher's name in the boxes provided and on all other pages used.

**School Stamp**

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**Section A**

1	
2	
3	
4	
5(a) or 5(b)	
<b>Total</b>	

## SECTION A - 40 MARKS

*Answer any 16 questions from this Section. All questions carry equal marks.*

1. (i) Name the power tool shown.

NAME

- (ii) Give **ONE** specific use for this tool.

USE


2. Name **THREE** categories of wood preservatives suitable to prolong the life of timber products that will be used outdoors.

1

2

3



3. Wood knots are natural defects that occur in wood.

Name **THREE** other naturally occurring defects.

1

2

3



4. (i) Name the woodworking tool shown.

NAME

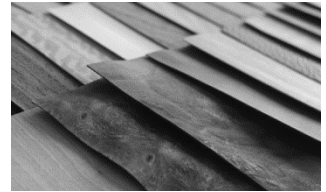
- (ii) Give an appropriate use for this tool.

USE


5. Veneers are used to decorate wooden artefacts.

Name **TWO** methods used to cut veneers from logs.



1

2

6. List **THREE** specific safety precautions that must be observed while using the mortice machine in the MTW workshop.



1

2

3

7. List **TWO** suitable methods of applying a beeswax finish to project work.

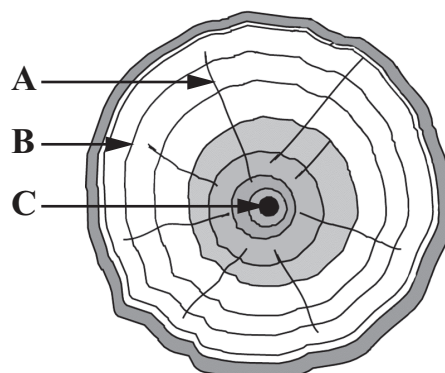


1

2

8. The diagram shows the cross section of a tree.

Name the parts labelled **A**, **B** and **C**.

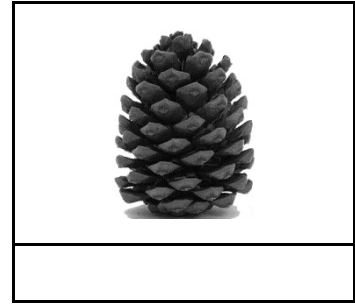
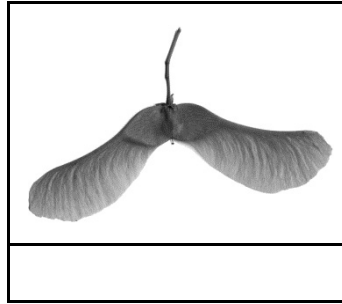
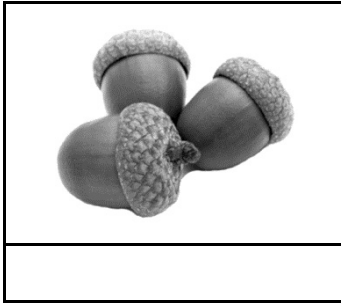


A

B

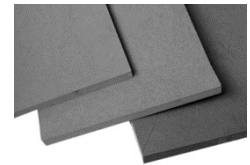
C

9. The diagrams show the seeds of three common Irish trees.  
In the spaces provided below, name **each** tree.



10. MDF is a manufactured board used extensively in the construction industry.  
What do the letters MDF stand for?

M   
D   
F



11. Thermoplastics can be remoulded many times.

(i) Name **TWO** thermoplastics.

1   
2



(ii) What is the name given to plastics that can be moulded only once?

NAME

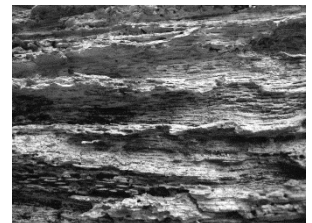
12. Several species of fungi attack wood and cause it to decay.

(i) Name **ONE** species of fungus.

NAME

(ii) List **TWO** conditions necessary for a fungus to develop.

1   
2



13. The letters FSP are associated with drying of timber.

What do the letters FSP stand for?

F

S

P

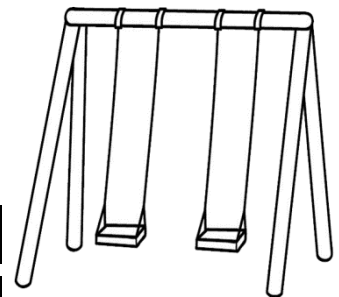
14. The diagram shows a children's swing set.

When in use, forces are exerted on the supporting legs and swing ropes.

In the spaces provided name these forces

**LEGS**

**ROPES**



15. The diagram shows a **Biscuit Joint**.

Name **THREE** suitable adhesives that can be used to bond the pieces together securely.

1

2

3



16. The fitting shown is to be used on an external door

(i) Name the fitting.

**NAME**

(ii) Name **TWO** suitable metals to manufacture this fitting from.

1

2



17. Thinning is an important stage in the management of a forestry.



(i) Briefly explain the purpose of thinning.

**PURPOSE**


(ii) Give **ONE** suitable use for the thinnings.

**USE**

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18. Cutting machines are capable of producing fast, accurate components for project work. This can be referred to as a CAM process.

What do the letters CAM stand for?

C

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A

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M

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19. (i) Name the woodworking tool shown.

**NAME**

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(ii) State the process associated with its use.

**PROCESS**

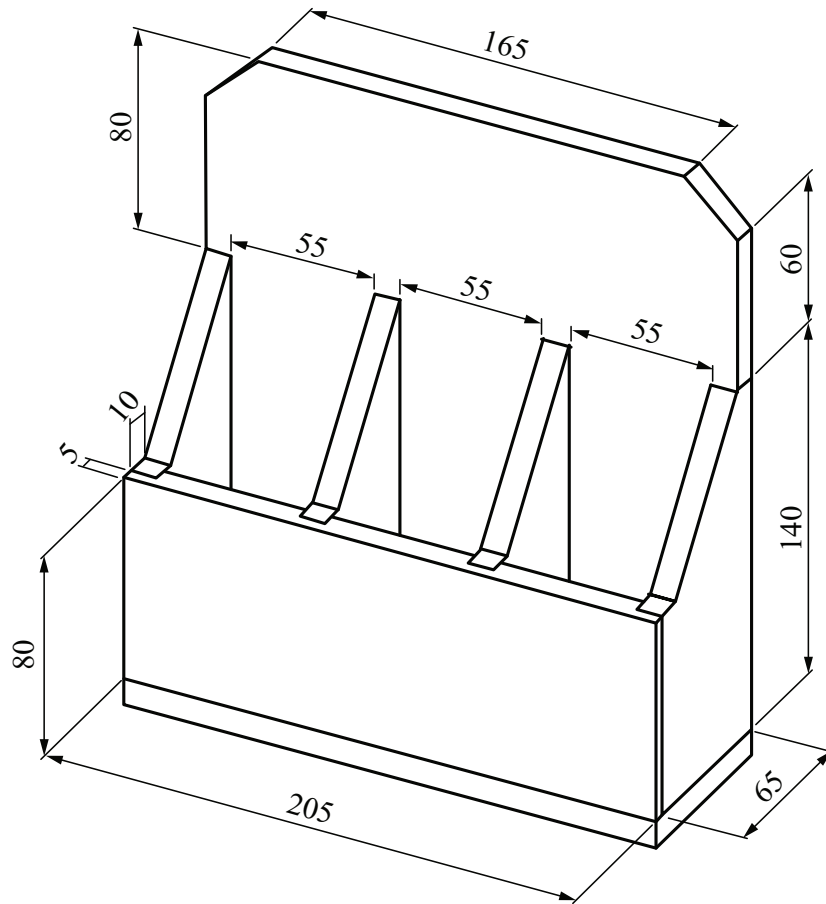
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20. The dimensioned drawing below shows a kitchen utensil holder made from red deal.

*All material is 10mm thick.*

Complete the given cutting list.



Description	Quantity	Length	Width	Thickness
Front	1		80	10
Back	1	205		10
Base	1	205		10
Dividers		140		10

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