

CANDIDATE NAME

CANDIDATE No						
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# The Institute Of Carpenters

## FOUNDATION CERTIFICATE

*(Formerly Pre-Vocational Certificate)*

**May 23rd 2001**

**THEORY PAPER**

**TIME ALLOWED ONE AND A HALF HOURS**

**The following instructions should be read by ALL  
CANDIDATES before they commence work**

To obtain full marks Candidates must answer **ALL** questions  
Answers **MUST** be submitted on the question paper  
immediately below the question

Your candidate name and number **MUST** be written clearly in  
the top right hand corner of this sheet

This question paper remains the property of the  
**Institute of Carpenters**  
and all USED AND UNUSED PAPERS **MUST** BE RETURNED after the examination

1. Name **FIVE** components associated with a hipped ended roof.

1.
2.
3.
4.
5.

2. Name the wood which is close to the pith of a tree and which no longer carries sap.

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3. Complete the following statements by inserting the most suitable word from the given list.

Chamfer; Grooves; Mould; Arris; Rebates; Pencil Round.

- a) When making panelled doors, the plywood panels, which are fitted during assembly, are inserted into \_\_\_\_\_ worked around the inside edges of the framework.
- b) When making glazed doors, the glass is fitted into \_\_\_\_\_ which are worked around the inside edge of the framework.

4. Name the type of portable powered hand-tool that would best be suited for preparing a joinery item for painting.

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5. Describe **ONE** method of fixing a timber casement window frame during construction of the brickwork.

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6. Define the term "CAST IN-SITU" with regard to formwork.

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7. Indicate by inserting the appropriate letter in the box provided, which of the suggested trades persons would be most likely to carry out the operations listed.

a) Carpenter;      b) Cabinet Maker;      c) Joiner,  
d) Machinist;      e) Setter-Out;      f) Timber Supplier.

- |                                   |                      |
|-----------------------------------|----------------------|
| 1. Preparing timber to size       | <input type="text"/> |
| 2. Constructing Doors and Windows | <input type="text"/> |
| 3. Laying floor boards            | <input type="text"/> |
| 4. Marking out timber components  | <input type="text"/> |

8. Name a type of adhesive suitable for use in the manufacture of internal joinery.

9. Name the type of joint that is similar to a Mortice and Tenon but instead of the sides being removed to form a tenon, the centre is removed to form a slot.

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10. 25 drawing boards 700 mm x 500 mm are to be manufactured using 16 mm thick plywood. Calculate the total area of plywood required in square metres.

Total area of Plywood =	
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11. Name a method used to strengthen and prevent twisting of the joists in the construction of upper floors.


12. Describe **ONE** job which a Carpenter and Joiner may do during the construction of a house to assist the :-

(a) Plasterer; (b) Electrician.

(a)
(b)

13. Name a figure that has eight sides.

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14. State **Three** safety checks to be made before using a pair of stepladders.

1.
2.
3.

15. Name a type of lengthening joint.

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16. When using an oil-stone for sharpening, state reasons for applying thin oil to the stone.


17. Name **ONE** type of nail for fixing architrave, and because of its shape reduces the possibility of splitting the timber.

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18. Name **TWO** types of cramping device that may be used in a carpentry and joinery workshop.


19. Name **TWO** types of manufactured board other than plywood and state **ONE** use for each.

Type of Board	Use

20. Name an item of ironmongery that is used on a casement window to hold the sash open.

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21. State **TWO** situations in building construction where a system of triangulation may be used to advantage.

1.
2.

22. List **FOUR** safety precautions applicable to a joinery workshop or a building site.

1.
2.
3.
4.

23. State one type of screw head other than counter sunk that would be used to secure beading around a glazed opening.

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24. State **TWO** examples of second fixing in a bedroom.

1.
2.

25. Describe **ONE** situation in building construction where a damp proof course would be used.


26. Name **FOUR** parts of a circle other than the circumference.

1.
2.
3.
4.

27. State the meaning of the following symbol descriptions which may be found on electrically powered portable tools.
- (a) Two small squares, one inside the other.
  - (b) A kite symbol that has two letters and a number underneath.

(a)
(b)

28. Name THREE components of a traditional casement window frame.

1.
2.
3.

29. Describe briefly the construction of an open eaves pitched roof.


30. Describe a type of shelving that is suitable for use in an airing cupboard and state why it is suited to this purpose.




31. State **FOUR** reasons for seasoning/drying timber before use.

1.
2.
3.
4.

32. State **TWO** precautions to be observed when using a chisel.

1.
2.

33. State the job title of the person who is responsible on a Building Site for the day to day Planning and Management of the Building Operations.

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34. Excluding portable electric power tools, name **TWO** types of saw used for cutting a curve.


35. Describe briefly how an inward opening external door and frame can be designed to prevent the entry of water.


36. List the timber components that would be included when fitting a door lining in an internal block and plastered wall.


37. Arrange the following in their probable order of construction :-  
(a) Roof (b) Floors (c) Finishes (d) Drainage (e) Walls  
(f) Foundations (g) Internal Services.

1.	
2.	
3.	
4.	
5.	
6.	
7.	

38. State the title of **ONE** set of Regulations which are required to be displayed in a joinery workshop.

39. Name one type of hinge suitable for hanging a ledged and braced door.

40. Name the type of chisel that would be used for cutting slots in timber to receive a tenon.