CANDIDATE No.

4 A C



The Institute Of Carpenters

ADVANCED CRAFT EXAMINATION

Wednesday June 16th 2004

THEORY PAPER A

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

Candidates are advised **NOT** to spend not more than **1 HOUR** on this section. Total time allowed for both papers A and B is **THREE HOURS**

To obtain full marks Candidates must answer ALL questions which carry equal marks

Answers **MUST** be submitted on the question paper immediately below the question Your candidate 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

Name:														
Date of Birth:		Region												
Occupation:												A	ge	

1. List **FIVE** items of ironmongery required to hang a hardwood front door, including **TWO** items for security.

1.	
2.	
3.	
4.	
5.	

2. Illustrate with sketches a type of hinge used on :-

(a) a traditional casement window; (b) a stormproof window.

3. List **THREE** advantages and **TWO** disadvantages of using cartridge operated (ballistic) tools.

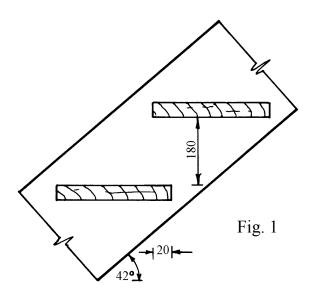
Advantages						
1.						
2.						
3.						

Disadvantages

1.	
2.	

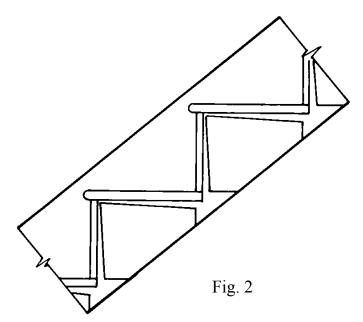
- 4. (a) Figure 1 shows the section through the tread of an open riser stair.
 - (i) State why the stair does not conform with the Building Regulations;

(ii) Show on the diagram how this problem can be rectified.



(b) Indicate on figure 2 the following :-

(i) rise; (ii) going.



5. Using notes and sketches describe **TWO** methods of secret fixing 1220 mm x 2440 mm x 18 mm oak veneered panels to a solid brick wall.

6. In conjunction with suspended ground floor construction, state the purpose of the following :-

(a) D.P.C.; (b) Air Bricks; (c) Over-site Concrete;

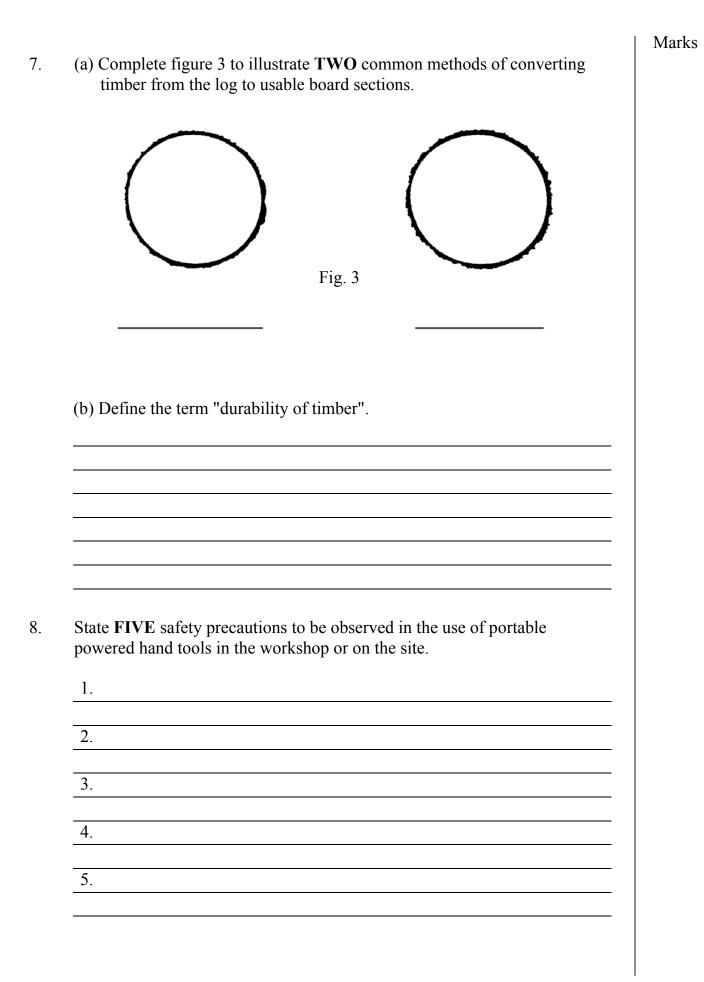
(d) Honeycomb Sleeper wall.

 a.

 b.

 c.

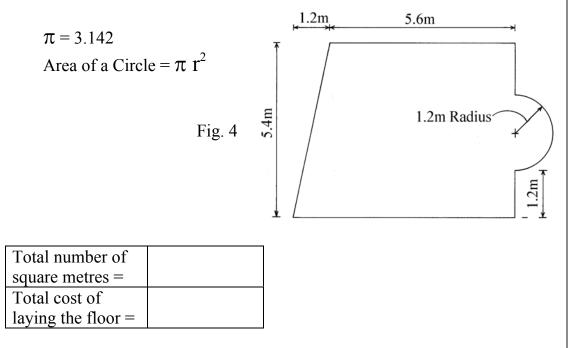
 d.



9. (a) Explain the purpose of a datum line.

(b) Describe a method to establish this datum line at various positions within a building under construction.

- 10. Figure 4 shows the plan of a room, the floor of which is to be laid with wood blocks. Calculate :-
 - (a) The total number of square metres of wood block flooring required;
 - (b) The total cost of laying the wood blocks given a net cost per square metre of £23.50.



11. Describe with the aid of sketches the function or purpose of **THREE** of the following :-

(a) Riving knife; (b) Bridge guard; (c) Ring fence;

(d) False fence; (e) Crown guard.

Item	Function or Purpose

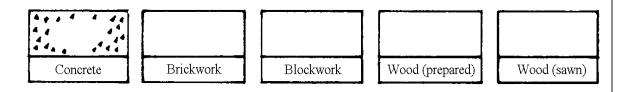
12. Sketch horizontal sections through :-

(a) The jamb and casement stile of a traditional window;

(b) The jamb and casement stile of a stormproof window.

13. Figure 5 shows the graphical representation of concrete. Complete the boxes for the remaining materials.

Concrete (given); Brickwork; Blockwork; Wood (prepared); Wood (sawn).



14. Sketch **THREE** shelf supporting systems.

15. State **TWO** reasons for including a haunch on the joint between the stile and top rail of a panelled door.

16. List the tools and fixings required to fix a purpose made wall unit to a plastered brick wall.

- 17. Make sketches to show the construction of :-
 - (a) Open sprocket eaves;
 - (b) Closed eaves.

18. (a) Describe the function of strutting to timber upper floors.

(c) Sketch **THREE** types of strutting which may be used in timber upper floors.

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