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**TIME ALLOWED ONE AND A HALF HOURS**

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**Institute of Carpenters**  
and all USED AND UNUSED PAPERS **MUST** BE RETURNED after the examination

[illegible]

1. Complete the table below by stating a different type of lock which may be used in each of the situations indicated.

Situation	Type of Lock
External Panelled Door to a Domestic Dwelling.	
Ledged and Braced Door to a Portable Building.	
Pair of Wooden Gates to a Compound	

2. Describe using notes and sketches, the purpose, and positioning of the following types of roof members :-

(a) Purlin; (b) Strut; (c) Sprocket.

3. Calculate the total cost of flooring for a room 6.3 m by 5.4 m, if the flooring cost £22 . 54p m<sup>2</sup>.

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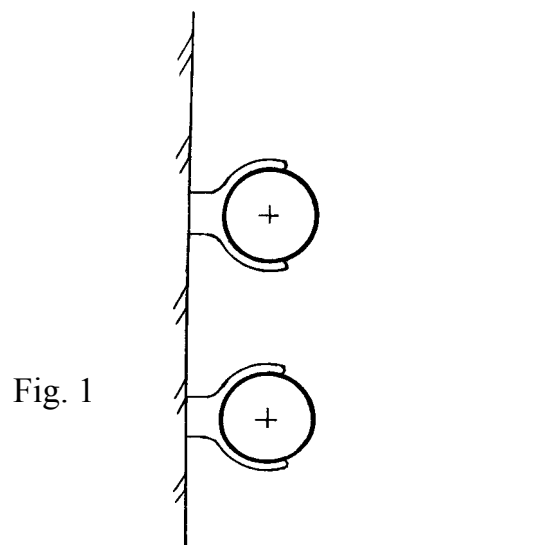
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4. Sketch, for each of the manufactured boards stated below, a section through the board to illustrate its construction.  
(a) Blockboard; (b) Laminboard; (c) Plywood.
5. List the tools required to fit the hinges, a mortise lock and furniture to an external hardwood door.
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
6. Complete Figure 1 to show a method of boxing in existing pipework.



7. (a) State the studwork centres required for the following plasterboard thicknesses indicated in the box below.

Plasterboard Thickness	Studwork Centres
9 mm	
12 mm	

- (b), List **TWO** advantages and **TWO** disadvantages of the types of partitioning indicated in the box below.

Types	Advantages	Disadvantages
Fixed partitioning		
De-mountable Partitions		

8. The table below relates to the building regulations for staircase construction. Complete the table, by adding the current regulation for the given statement

(i)	The height of the handrail on the staircase is between :-	
(ii)	The minimum distance at the base of the stair near a door opening is :-	
(iii)	The minimum width of the landing must not be less than :-	

9. (a) Name the following types of screw head in Figure 2.

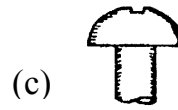
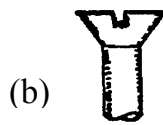
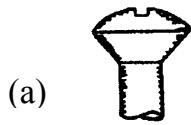


Fig. 2

(a)	(b)	(c)
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- (b) List **FIVE** items of information which are required when ordering screws.

1.

2.

3.

4.

5.

10. (a) State **TWO** methods of seasoning timber.

1.

2.

- (b) State the method most suitable to achieve a moisture content below 16%.

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- (c) List **THREE** advantages of using seasoned timber.

1.

2.

3.

11. In relation to the use of arch centres, describe the following :-

(a) Why an arch centre is used;

(b) The safe procedure for easing and striking the arch centre.

(a)

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(b)

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12. (a) State, under B.S. colour coding, which of the pins on a power tool plug is the brown wire to be connected to;

(b) State in what circumstances does an electrically powered portable tool have no earth;

(c) State the recommended voltage for electrically powered portable tools when used on site or in the workshop;

(d) Name the appliance which is used to reduce voltage in an electric power system.

(a)

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(b)

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(c)

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(d)

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13. State **ONE** use for the following hand tools :-

Handtool	Uses
Side rebate plane	
Trammel points	
Paring chisel	

14. Complete the table below, for each type of adhesive.

Adhesive	Situation Used	Reason
Polyvinyl Acetate		
Synthetic Resin		
Contact		

15. Sketch and name the aids used for safe working, when using any **TWO** of the following machines :-

- (a) Circular Saw - General use;      (b) Band Saw - Cutting wedges;  
 (c) Planing Machine - Planing short lengths.

16. Describe the personal protective equipment required when unloading timber joists from the delivery lorry to the site.

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17. (a) Name **TWO** parts of a step ladder.  
(b) Name the protective coating that may be applied to timber ladders.

(a)

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(b)

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- (c) With regard to Scaffolding, state the function of the following :-

(i) Guard rail      (ii) Toe board.

(i)

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(ii)

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18. Describe, using notes and sketches, **ONE** method of fitting new sash cords to the upper sash of a double hung casement/sash window.

19. List **THREE** conditions which, when present in domestic premises, may promote an outbreak of Dry Rot.

1.

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2.

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3.

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20. Sketch a cross-section through the bottom rail and cill, of a traditional casement window, indicating the method of preventing capillary action.