

4. (a) (i) Make a freehand pictorial sketch of a steel rule.
 (ii) State **one** use of the steel rule.
 (iii) State **two** methods of maintaining the steel rule.
- (b) State **one** use of **each** of the following tools:
 (i) G-clamp;
 (ii) Soldering iron;
 (iii) Mould box.
- (c) Figure 3 shows the front elevation of a wall.

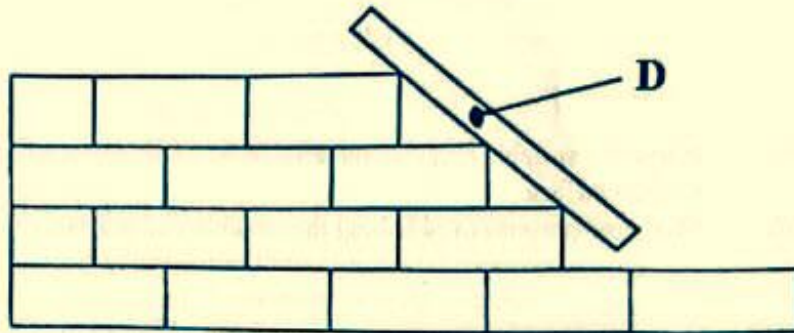


Figure 3

- (i) State the number of courses of the wall.
 (ii) Name the future continuation method shown on the wall.
 (iii) Identify the tool labelled D on the sketch.

[25 marks]

END OF ESSAY TEST

- (d) Figure 1 shows the sketch of a planed timber board to be smoothed and polished. Use it to answer Questions (d) (i) and (d) (ii).

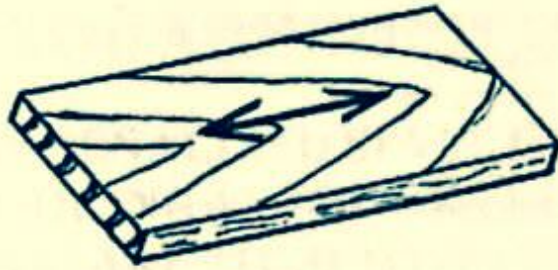


Figure 1

- (i) Name the suitable abrasive material to be used to smoothen the timber surface.
- (ii) State **one** purpose of polishing the smoothened surface of the timber.

[25 marks]

3. (a) (i) Make a freehand pictorial sketch of a rip saw and Label any **two** parts on the sketch.
- (ii) State **one** use of the rip saw.
- (b) Copy and complete the table below.

OPERATION	TWO TOOLS REQUIRED FOR EACH OPERATION
(i) Cutting tenon joint	(i) (ii)
(ii) Soldering sheet metals	(i) (ii)

- (c) Figure 2 shows a sketch of a wooden block. Draw to full size:
- (i) the front view in the direction of arrow Z;
 - (ii) the plan.

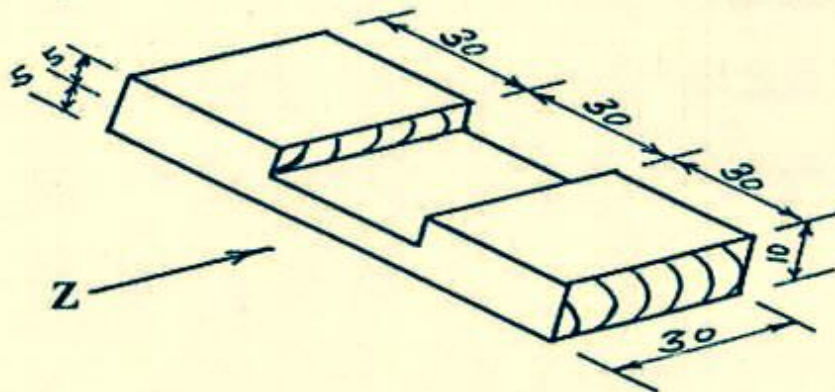


Figure 2

[25 marks]
Turn over

SECTION A
CORE SKILLS
[20 marks]*Answer Question 1*
[COMPULSORY]

1. (a) The head of a school is organizing a graduation party for the J.H.S graduates. State **two** factors that would determine the type of meal service. [2 marks]
- (b) (i) State **two** symptoms of scurvy. [2 marks]
(ii) State **two** characteristics of a seam. [2 marks]
- (c) (i) List **two** methods of drawing objects in pictorial view. [2 marks]
(ii) State **two** analysis questions based on ergonomics. [4 marks]
(iii) State **one** instrument used for drawing circles. [1 mark]
- (d) (i) Define *packaging*. [2 marks]
(ii) State **three** benefits of packaging. [3 marks]
(iii) List **two** important information on a good package. [2 marks]

SECTION B
[50 marks]*Answer two questions only from this section.**All questions carry equal marks.*

2. (a) (i) Make a freehand pictorial sketch of a brick.
(ii) Show the standard dimension of the brick on the sketch in (a) (i).
- (b) List **three** materials suitable for making rivets.
- (c) Copy and complete the table below.

TYPE OF TIMBER	ONE PROPERTY	ONE USE
(i) Wawa		
(ii) Odum		
(iii) Mahogany		