

PAPER 2  
ESSAY

1 hour

SECTION A  
CORE SKILLS  
[20 marks]

*Answer Question 1*  
[COMPULSORY]

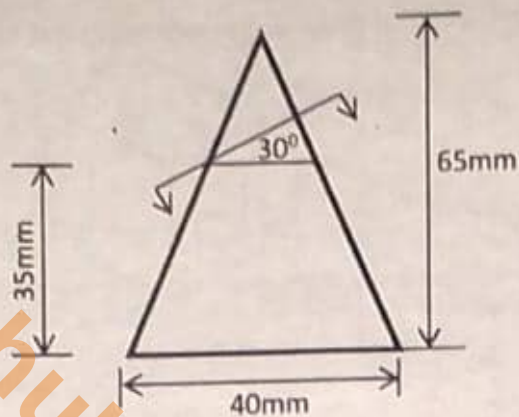
- (a) (i) State **four** functions of food in the human body. [2 marks]  
(ii) Give **three** characteristics of a wholesome food. [3 marks]
- (b) Outline **four** qualities of a good seam. [4 marks]
- (c) Draw a triangle and shade by using the cross-hatching technique. [4 marks]
- (d) (i) What is a *market survey*? [1 mark]  
(ii) Give **two** reasons why it is necessary to conduct a market survey on your product. [2 marks]
- (e) List **four** factors on which the analysis of a problem can be based. [2 marks]
- (f) Give **four** useful information that must be found on labels of product packages. [2 marks]

SECTION B  
[50 marks]

*Answer two questions only from this section.*  
*All questions carry equal marks*

- (a) Draw **three** different representative symbols of a bulb.
- (b) (i) State **four** properties of acrylic that make it suitable for making the face of clocks.  
(ii) List **four** other items made from acrylic plastic.
- (c) The figure below shows the front view of truncated square pyramid. Draw the full size, the following:  
(i) front view;  
(ii) plan;  
(iii) surface development.

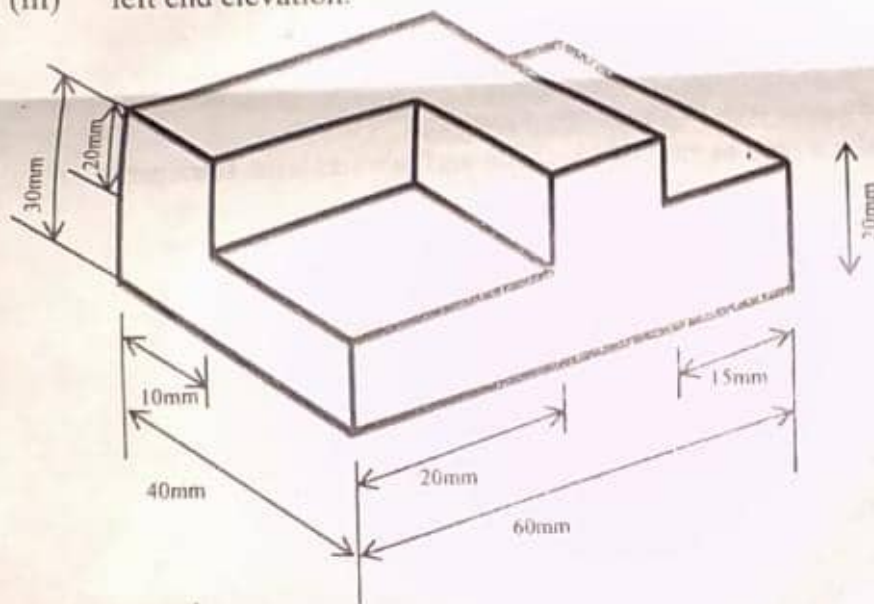
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- (d) (i) State **two** uses of a trowel.  
(ii) State **four** uses of a spade.

[25 marks]

3. (a) The isometric block below is a wood workpiece made in your school workshop. Draw the full size in first angle projection,  
(i) front view in the direction of arrow A;  
(ii) plan;  
(iii) left end elevation.



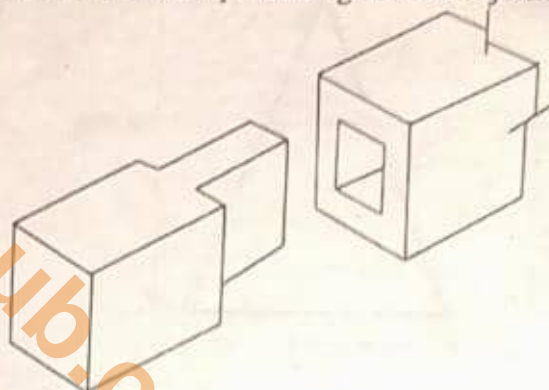
- (b) Copy and complete the table below.

Tool	One maintenance	One use
Rebate plane		
Spokeshave		
Rasp		

Turn over



- (c) Write the steps involved in producing the tenon joint below



- (d) Make a neat sketch of the following tools:

- (i) Folding bar;
- (ii) Funnel stake;
- (iii) Rawhide mallet.



[25 marks]

4. (a) (i) State the difference between *plumbing* and *levelling*.  
(ii) Make a freehand sketch of wooden float.
- (b) (i) What is *pinning*?  
(ii) State **one** way of preventing pinning.  
(iii) Make a neat sketch of hand file and label at least **four** parts.
- (c) Name **two** tools each for carrying out the following:  
(i) mixing mortar;  
(ii) measuring aggregates;  
(iii) gauging blocks;  
(iv) setting out a wall;  
(v) picking and spreading mortar;  
(vi) laying end blocks.
- (d) (i) What is the main difference in usage between a steel rule and tape measure?  
(ii) State **two** methods each for maintaining the tools in (d) (i) above.

[25 marks]

**END OF ESSAY TEST**