SHEET 1

PENANG SANGAM HIGH SCHOOL YEAR 10 **BASIC TECHNOLOGY**

WORKSHEET – 5

QUESTION 1

PART A

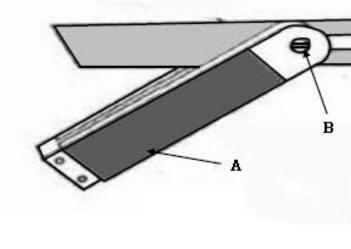
The faces on the isometric view of a given multi-shaped block are indicated by letters in **Figure 1**.

Write the correct letters in the circles in Figure 2 to match their corresponding faces in Figure 1.

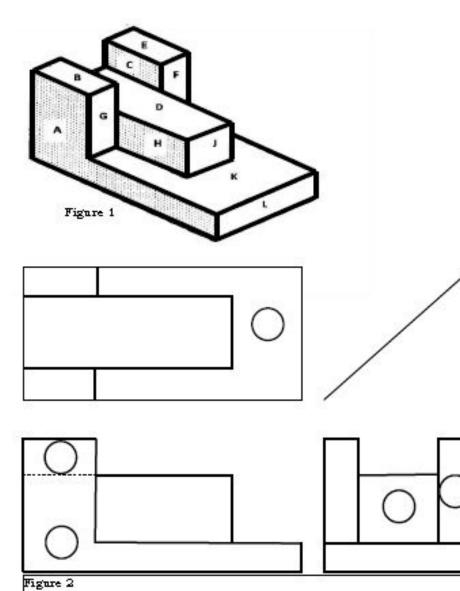
PART B

Name the parts of the hand tool given below and state a use of the tool. Use the word list given below.

	<u>w</u>	WORD LIST:		
Wing nut	Blade	Handle		



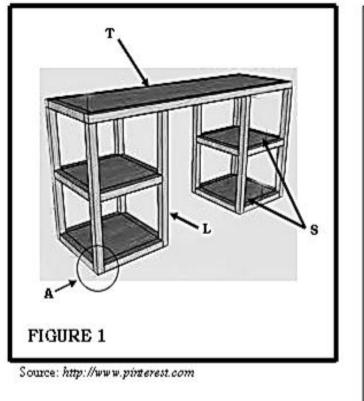
		WORD LIST:				
Blade	Handle	Stock	Screw			
/	(P)=					
A	В		(
B:		C: .	<u>.</u>			
			A B			



QUESTION 2

ENTERPRISING TASK

Study the details given below and answer questions (i) to (iv):



Requirements: (Show all calculations clearly)

FIGURE 1: Shoe Rack All dimensions below are in millimetres. 1. Top (T): Length = 1200 Width = 400 2. Eight Legs (L): Height = 500 Width = 50 3. Four Shelves (S): Length = 400Width = 400 Label of Parts and Materials: T-Top-Plywood L - Legs - Dakua S - Shelves - Plywood Unit Costs:

Dakua = \$0.000033/mm² Flywood = \$0.000040/mm2

Complete the material list given below by filling the blank spaces. (i)

ITEM	MATERIAL	SIZE (mm²)	QUANTITY	COST OF MATERIALS
Тор (Р)	Plywood	1200 × 400	1	\$19.20
Legs (Q)		500 × 50		
Shelves (S)	Plywood		4	

(ii) Calculate the total cost of materials for the **Shoe Rack**.

- Name a **suitable joint** that can be used for detail **A** shown in (iiii) FIGURE 1.
- (iv) Explain a feature of green design that is considered in the construction of the Shoe Rack.

(5 marks)

Total Cost: _____

(1 mark)

(2 marks)