

**SHORT ANSWER QUESTIONS**

**QUESTION 1**

**PART A**

**MATCHING**

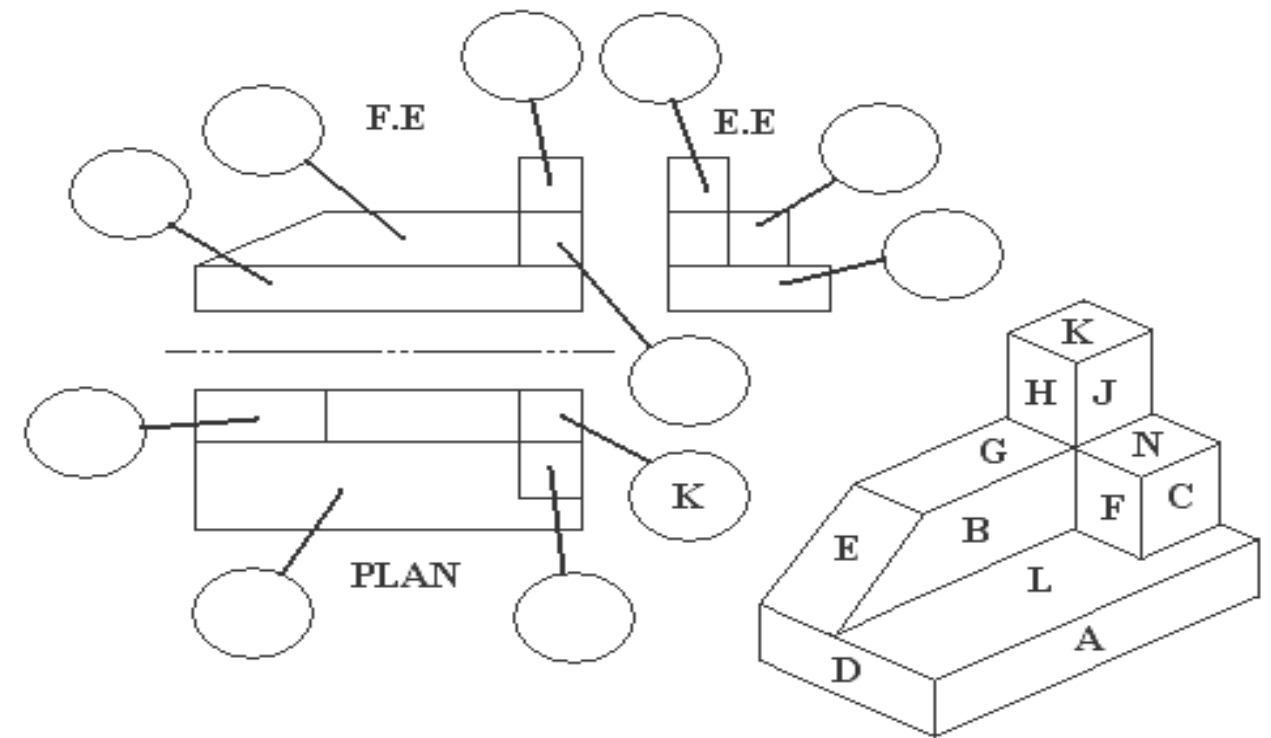
Match the terms in **List A** with the correct descriptions in **List B**. Write the letter representing the term in the box beside the matching description. Sample “A” is already done for you. Do not write a letter twice.

<b>List A</b>		
(A) Sliding bevel	(B) Hacksaw	(C) Softwood
(D) Hardwood	(E) Copper	(F) Ball pein hammer
(G) Vertical style	(H) Pincers	(I) Bench hook
(J) Recycling	(K) Danger zone	(L) Third angle projection

<b>List B</b>		<b>Answer</b>
1	Safety area around the machine	
2	Used for marking angles other than 90°	
3	Method used for printing	
4	Good conductor of heat and electricity	
5	Reduce the amount of waste sent to landfills	
6	Used while sawing on the bench	
7	Used to extract small bent nails	
8	Plan is drawn above the elevation	
9	Used for cutting rods and thick sheet metals	
10	Has smooth bark.	

**PART B**

The faces on the isometric view of a given multi-shaped block are indicated by letters in **Figure 3**. Write the correct letters in the circle in **Figure 4** to match their corresponding faces in **Figure 3**.



**Figure 4**

**Figure 3**

**APPLICATION QUESTIONS**

**QUESTION 1**                      **DESIGN**                      **(10 marks)**

**PROBLEM**

In many residential areas, there are a lot of stray dogs digging into people’s rubbish bins and leaving rubbish scattered here and there. This causes an eyesore and health hazards to neighboring residents.

**BRIEF**

Design a rubbish bin rack that will ease the problem.

**SPECIFICATIONS**

The following factors are to be taken into consideration when designing the rubbish bin racks:

- The material to be used for the construction should be readily available and made from the combination of metal and timber.
- It should be able to prevent dogs from having access to the rubbish.
- It must be strong and portable.
- It must be easy to construct.

**REQUIREMENTS**

1. In the space provided below, sketch a pictorial pencil/colour rendered final solution of the rubbish bin rack.

(4 marks)

2. Make a detail drawing to show how the design is made possible, the finishing material used and state the feature of climate change in the design. **(4 marks)**

3. Finishing material \_\_\_\_\_ (½ mark)

Feature of climate change: \_\_\_\_\_  
 \_\_\_\_\_ (½ mark)

Evaluate the final solution according to the following headings

HEADING	FINAL SOLUTION
MATERIALS USED	
EASE OF CONSTRUCTION	

(1 mark)

**THE END**