	INDIAN SCHOOL AL WADI AL KABIR	
Class: XI	**Department: SCIENCE 2026 – 27** **SUBJECT: ENGINEERING GRAPHICS**	**Date: 31/10/2026**
Worksheet No: 5 **WITH ANSWERS**	**UNIT 5: ORTHOGRAPHIC PROJECTIONS OF SIMPLE MACHINE BLOCKS**	**Note:** **A4 FILE FORMAT**
NAME OF THE STUDENT	**CLASS & SEC: XI C**	**ROLL NO.**

MULTIPLE CHOICE QUESTIONS

1. The primary purpose of orthographic projection is to represent a three-dimensional object using:
a) A single pictorial view
b) Two-dimensional views
c) A perspective drawing only
d) A freehand sketch only

2. Which of the following views represents the height and width of a simple machine block?
a) Top view
b) Front view
c) Side view
d) Isometric view

3. In the first-angle projection system followed in conventional Engineering Graphics exercises, the top view is placed:
a) Above the front view
b) Below the front view
c) To the right of the front view
d) To the left of the front view

4. Which two dimensions are represented in the top view of a simple machine block?
a) Height and width
b) Height and depth
c) Width and depth
d) Length and height

5. A rectangular block has a length of 80 mm, a width of 50 mm and a height of 40 mm. What is the shape of its front view when viewed directly towards a rectangular face of length 80 mm and height 40 mm?

a) Circle
b) Rectangle of 80 mm × 40 mm
c) Rectangle of 50 mm × 40 mm
d) Square of 40 mm × 40 mm

6. According to the first angle method of projection, the left side view should be at?
a) Front side
b) Left side of front view
c) Right side of front view
d) Left side of top view

7. Identify the two-dimensional view from the following?
a) Isometric
b) Orthographic
c) Perspective
d) Oblique

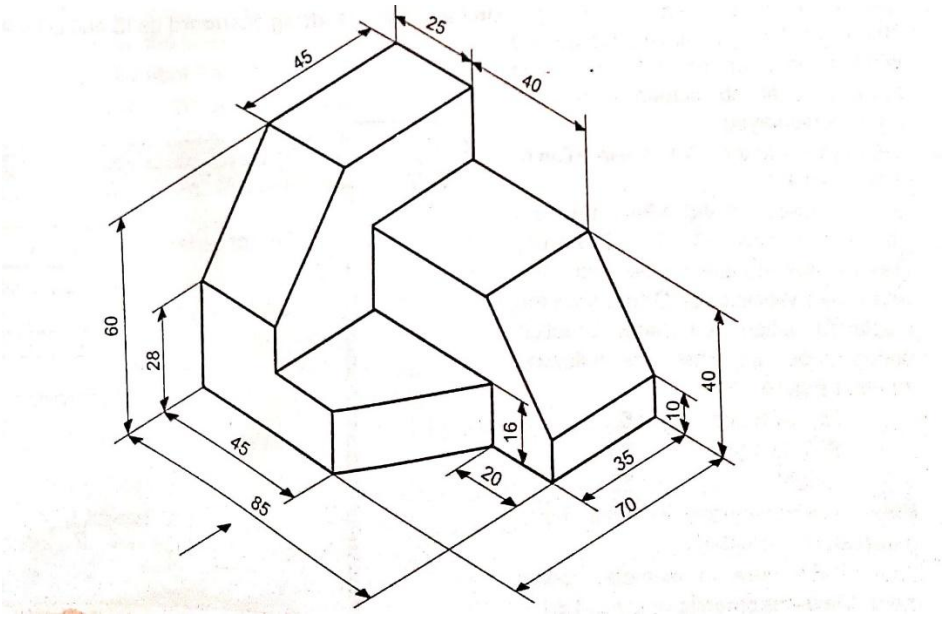
8. The three-dimensional drawing with true scale is called a ---------.
a) Isometric Projection
b) Isometric view
c) Orthographic projection
d) None of the above

9. Explaining an object with two or more views is called?
a) Orthographic projection
b) Isometric projection
c) Axonometric projection
d) Perspective projection

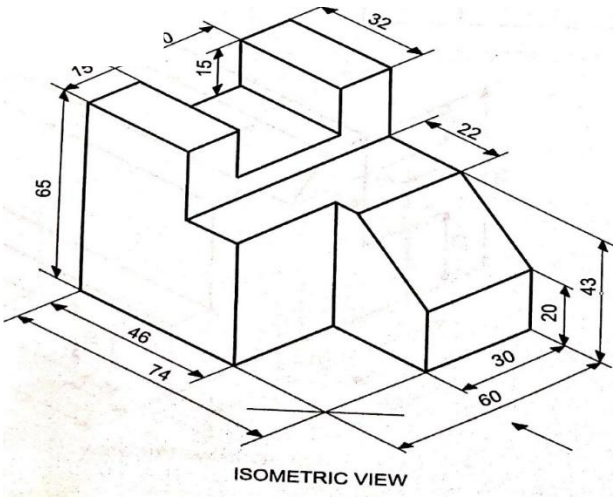
10. Why must the front, top, and side views of a machine block be aligned correctly in an orthographic drawing?
a) To make the drawing look decorative
b) To maintain the correct relationship between dimensions in different views
c) To avoid using dimensions
d) To convert the drawing into a perspective view

DESCRIPTIVE TYPE QUESTIONS

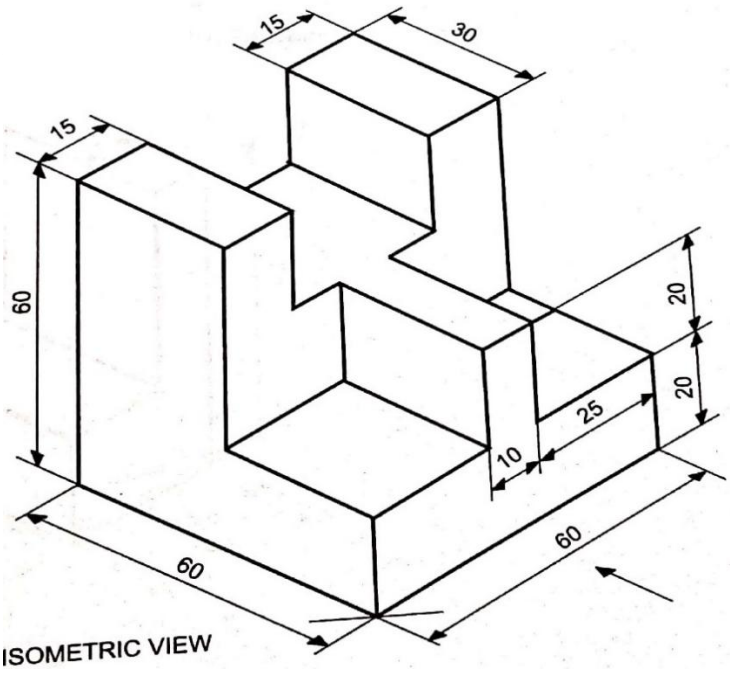
1. Draw to scale 1:1 the front view, top view, and side view of the given machine block.



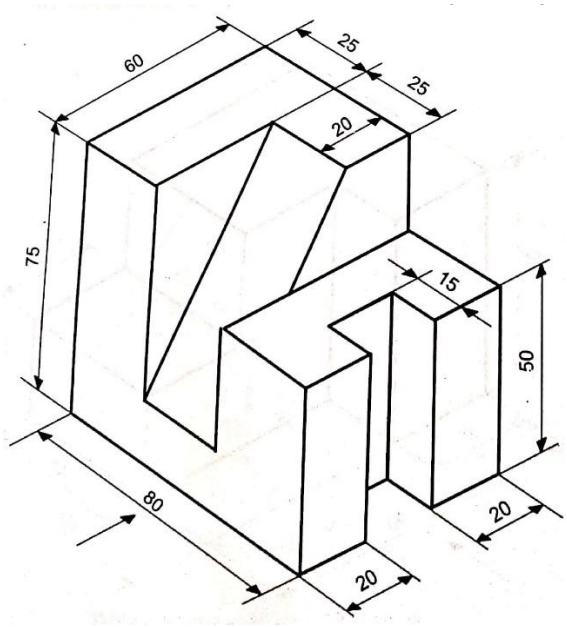
2. Draw to scale 1:1 the front view, top view, and side view of the given machine block.



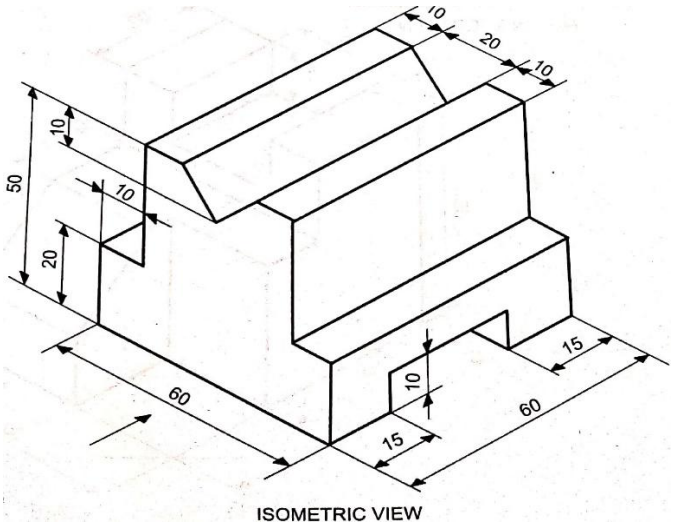
3. Draw to scale 1:1 the front view, top view, and side view of the given machine block.



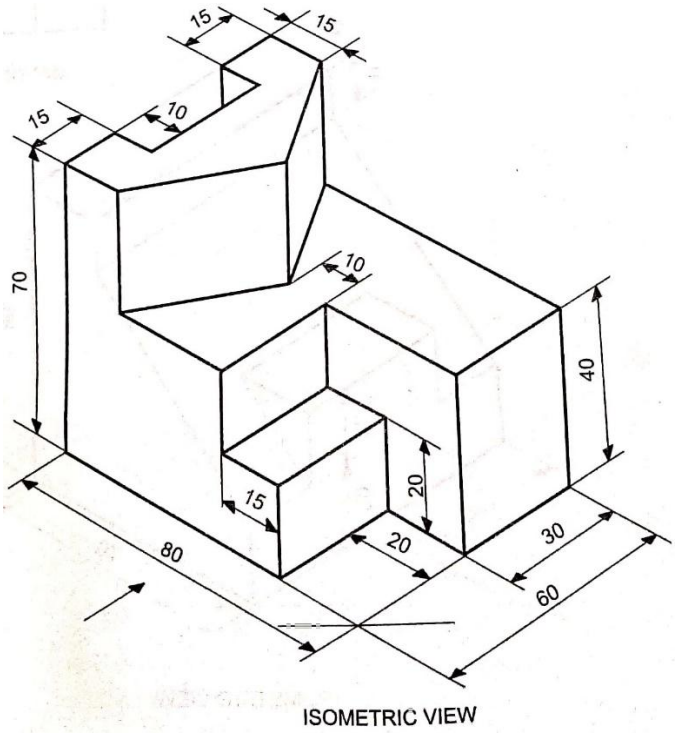
4. Draw to scale 1:1 the front view, top view, and side view of the given machine block.



5. Draw to scale 1:1 the front view, top view, and side view of the given machine block.



6. Draw to scale 1:1 the front view, top view, and side view of the given machine block.



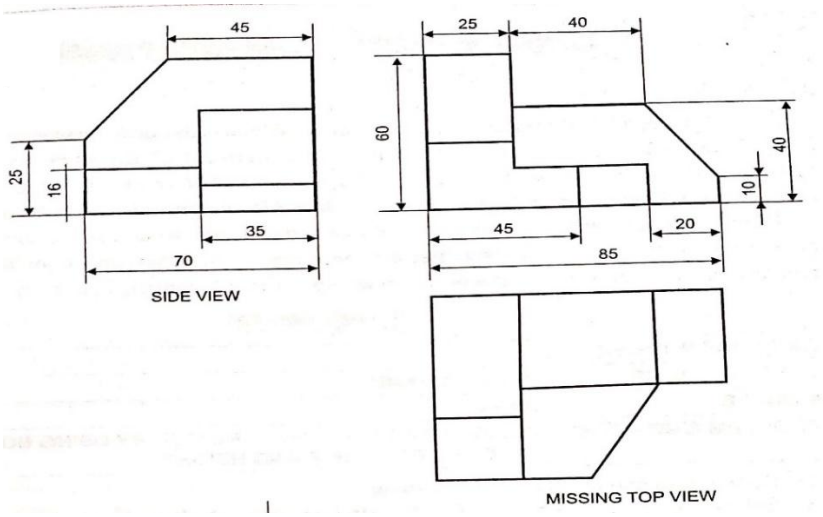
MULTIPLE CHOICE QUESTIONS

ANSWERS

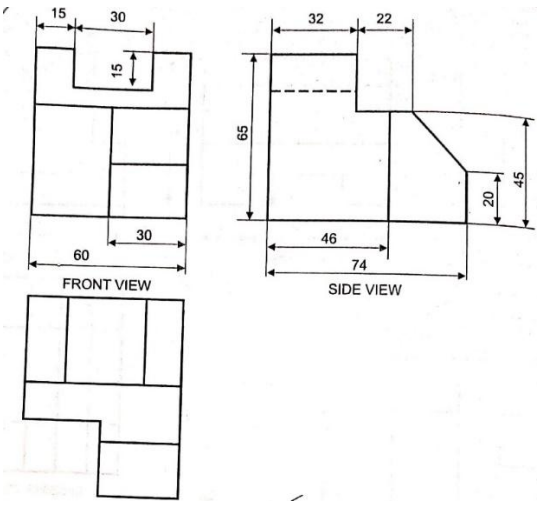
1.b) Two-dimensional views
2.b) Front view
3.b) Below the front view
4.c) Width and depth
5.b) Rectangle of 80 mm × 40 mm
6.c) Right side of front view
7.b) Orthographic
8.b) Isometric view
9.a) Orthographic projection
10.b) To maintain the correct relationship between dimensions in different views

SOLUTIONS FOR DRAWINGS

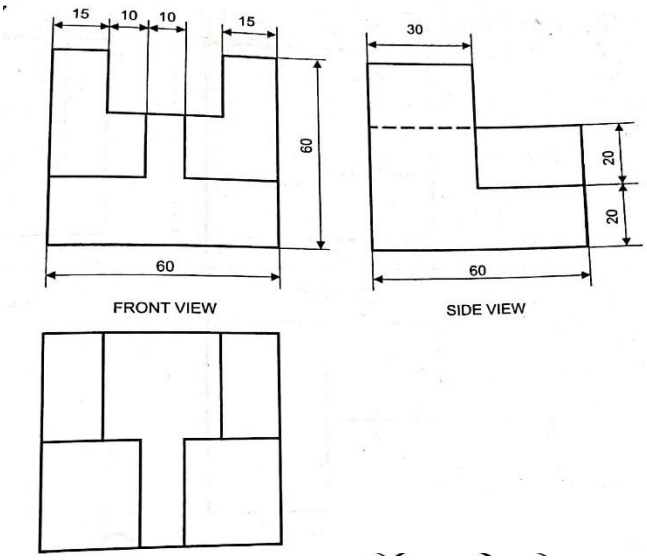
1.



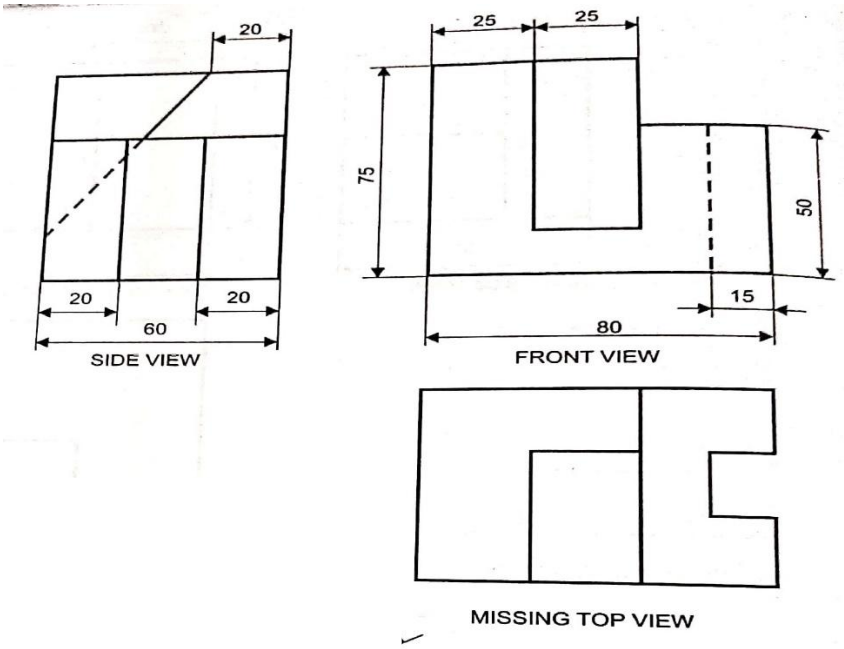
2.


15
30
15
60
30
FRONT VIEW
32
22
65
20
45
46
74
SIDE VIEW

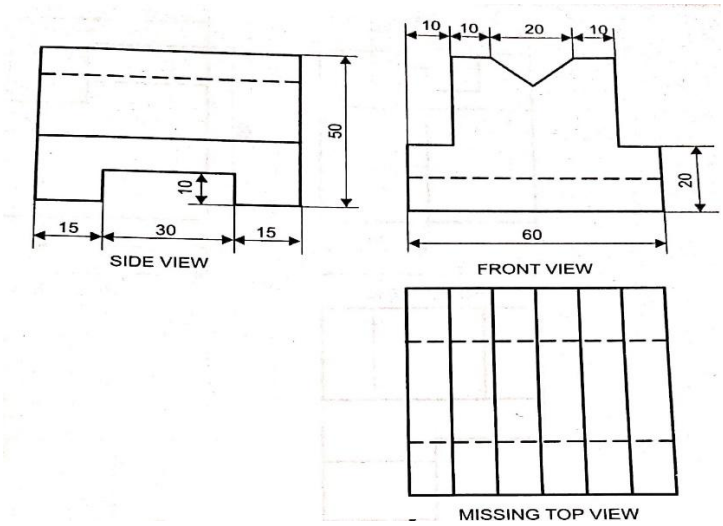
3.


15
10
10
15
60
60
FRONT VIEW
30
20
20
60
SIDE VIEW

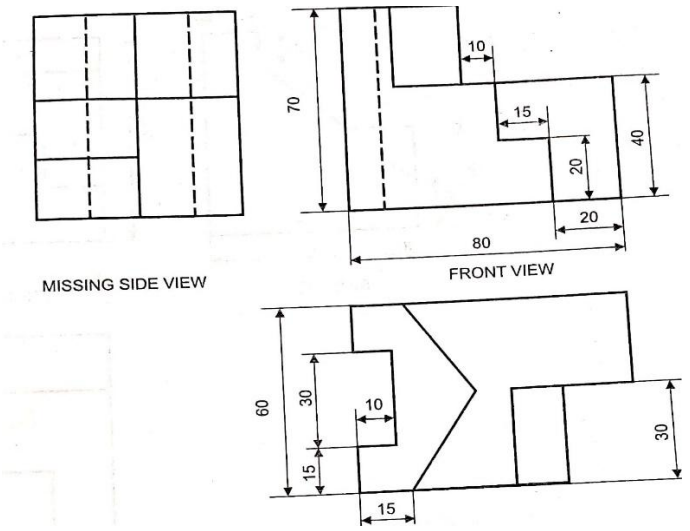
4.


20
20
20
60
SIDE VIEW
25
25
75
50
15
80
FRONT VIEW
MISSING TOP VIEW

5.


50
10
15
30
15
SIDE VIEW
10
10
20
10
20
60
FRONT VIEW
MISSING TOP VIEW

6.



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