6005

C16-COMMON–107

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BOARD DIPLOMA EXAMINATION, (C-16)

MAY/JUNE—2023

FIRST YEAR (COMMON) EXAMINATION

ENGINEERING DRAWING

Time : 3 Hours] [*Total Marks* : 60

PART—A 5×4=20

Instructions : (1) Answer **all** questions.

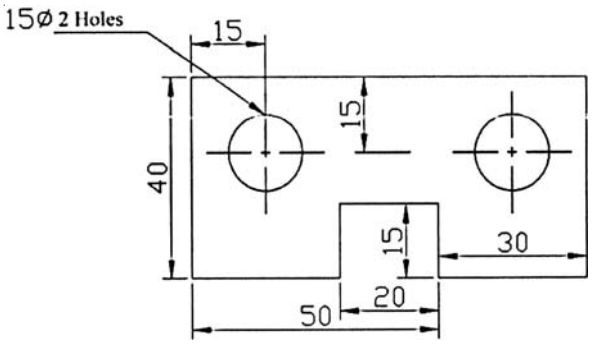
(2) Each question carries **five** marks.

(3) All dimensions are in mm.

1. Print the following in single-stroke vertical capital lettering of 12 mm size as per SP : 46-1988

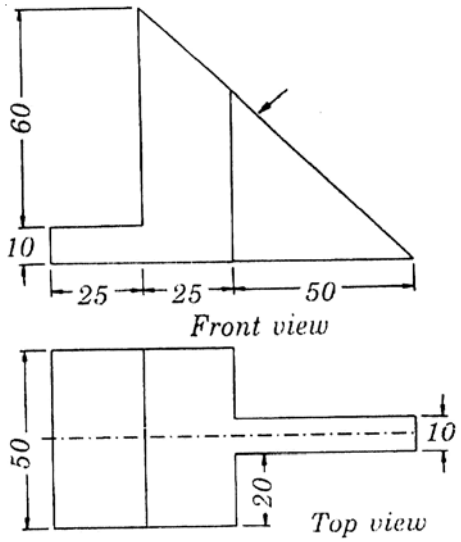
"KNOWLEDGE IS POWER"

2. Redraw the fig. to full size scale and dimension it according to SP : 46-1988



3. Draw a pentagon of side 30 mm.

4.* Draw the auxiliary view of inclined portion of the object shown in fig.



PART—B

10×4=40

Instructions : (1) Answer *any* **four** questions.

(2) Each question carries **ten** marks.

(3) All dimensions are in mm.

5. Construct a rectangular hyperbola through a point **p** which is at a distance of 30 mm and 20 mm from the two asymptotes.

6. A line of length 70 mm is parallel and 20 mm in front of V.P. It is also inclined at 45° to H.P. and one end is on it. Draw its projections.

7. A right circular cylinder of diameter 50mm and height 70mm rests on its base such that its axis is inclined at 45° to H.P and parallel to V.P. A cutting plane parallel to H.P and perpendicular to V.P cuts the axis at a distance of 40 mm from the bottom face. Draw the front view and sectional top view.

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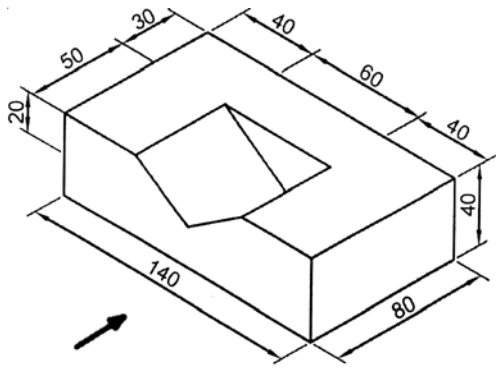
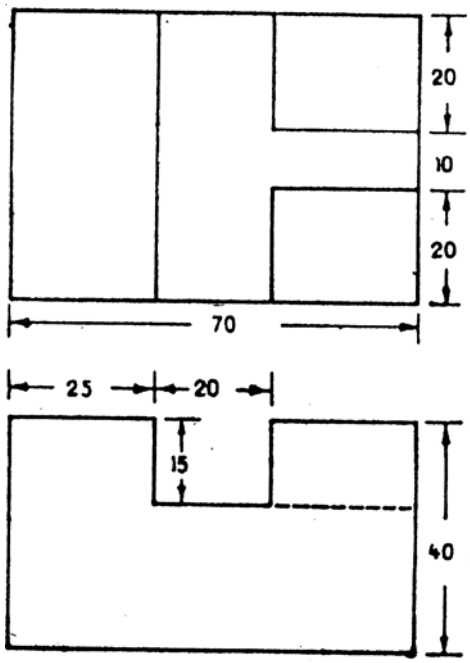
8.* Draw the front view, top view and right side view of the object shown in fig.



9. Draw the Isometric view of the block whose orthographic views are given below.



10. A hexagonal prism of base 20 mm and height 50 mm is standing vertically on ground with one of its base edges parallel to V.P it is cut by a sectional plane, inclined at 45° to H.P., perpendicular to V.P and passing through one of the top corners of the prism. Draw the development of lateral part of the cut prism.

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