



C23-A-M-C-MNG-MET-MRAC-107

23017

BOARD DIPLOMA EXAMINATION, (C-23)

OCTOBER/NOVEMBER—2025

FIRST YEAR (COMMON) EXAMINATION

ENGINEERING DRAWING

Time : 3 Hours]

[Total Marks : 60

PART—A

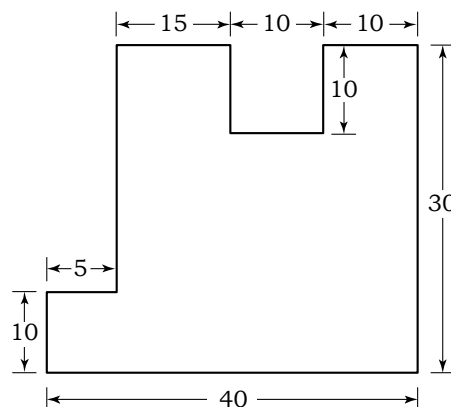
5×4=20

- Instructions :** (1) Answer **all** questions.
(2) Each question carries **five** marks.
(3) Take suitable scale where ever required.
(4) All the dimensions are in mm.

- 1.** Write the following in single-stroke inclined capital letters of 10 mm height.

“Every cloud has a silver lining”

- 2.** Redraw the following figure to the full scale by aligned system.



- 3.** Draw external tangents to circles of diameters 40 mm and 30 mm with center distance 60 mm.

4. Draw the projections of a line of 60 mm is parallel and 15 mm above HP. It is 30° inclined to VP and one of its end 10 mm in front of VP.

PART—B

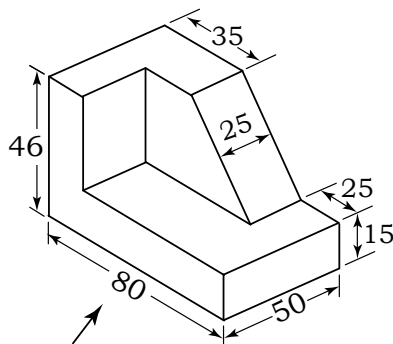
10×4=40

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

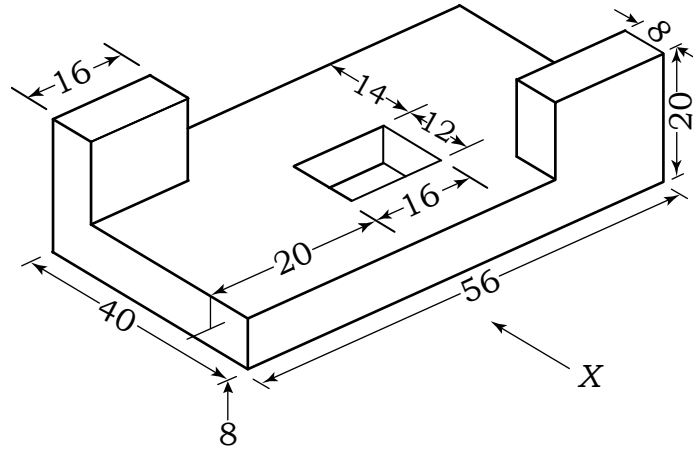
(2) Each question carries **ten** marks.

(3) All the dimensions are in mm.

5. Construct a cycloidal curve traced by a point on the circumference of a circle of radius 30 mm. Draw a normal and tangent to a curve at any point on it.
6. A hexagonal plane of side 30 mm is 45° inclined to HP and one of its corner 15 mm above HP. It is perpendicular to VP and one of its side 10 mm in front of VP. Draw its projections.
7. Draw the projections of a cone of base 40 mm diameter and axis 80 mm length is resting on HP on a point of its base, such a way that the axis is inclined at 45° to the HP and parallel to VP.
8. A pentagonal pyramid to base side 30 mm and axis 65 mm long, rests with its base on HP and one of the edges of its base is perpendicular to VP and also one of its base corner is 10 mm in front of VP. It is cut by a section plane perpendicular to VP and parallel to HP and also passing through the axis at 35 mm above the base. Draw the front view and sectional top view.
9. Draw the front view, top view and right side view of the object shown below.



10. Draw the front view, top view and left side view of the object shown below.



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