

C16-A/CH/CHST/C/CM/EC/EE/M/AE/IFW/MNG/MET/IT/IT/PK
AE/IFW/MNG/MET/IT/IT/PK

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BOARD DIPLOMA EXAMINATION, (C-16)
MARCH / APRIL - 2019
FIRST YEAR (COMMON) EXAMINATION
ENGINEERING DRAWING

Time : 3 Hours]

[Total Marks : 60

PART - A

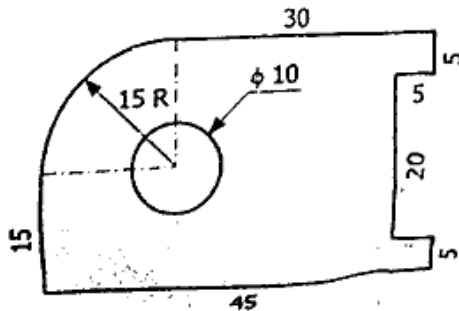
5x4=20

Instructions :

- (1) Answer ALL questions
- (2) Each question carries FIVE marks
- (3) Assume any missing data suitably.
- (4) All dimensions are in mm.

1 Write the following in single stroke vertical letters of size 10 mm.
"WHAT WE THINK WE BECOME"

2 Redraw the following figure and dimension it in aligned system.

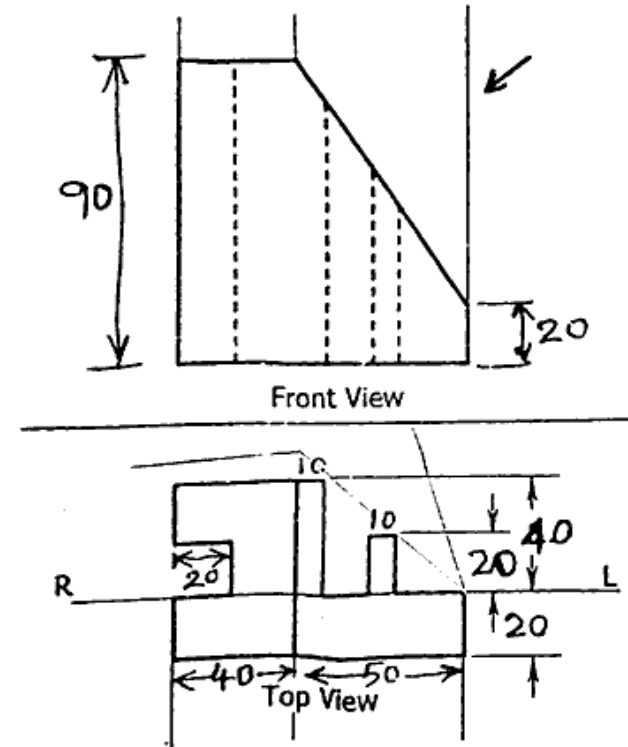


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- 3 Draw a parabola whose base is 100 mm and axis is 70 mm by tangent method.
- 4 Draw the auxiliary view of an object whose projections are given below.



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PART - B

4×10=40

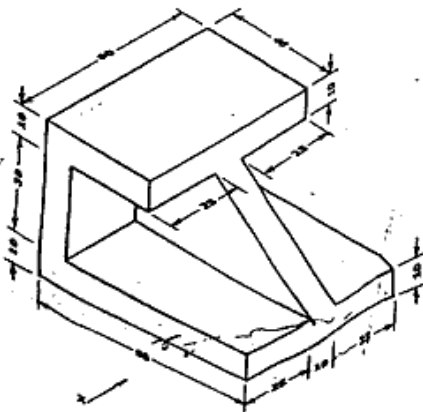
- Instructions :
- (1) Answer any **FOUR** questions
 - (2) Each question carries **TEN** marks.

5 Draw the locus of a point on the circumference of a circle of diameter 40 mm when it is rolling on a straight path without slipping for one complete revolution. Draw tangent and normal to the curve at any point on it. Also name the curve.

6 A line PQ 75 mm long, has its end P in the V.P. and the end Q in the H.P. The line is inclined at 30° to the H.P. and at 60° to the V.P. Draw its projections.

7 A pentagonal pyramid of base side 40 mm and height 80 mm is resting on HP on its base with one of its base side parallel to V.P. It is cut by a plane inclined at 30° to HP, perpendicular to V.P. and is bisecting the axis. Draw its front view, sectional top view and true shape of section. <http://www.sbtetonline.com>

8 Draw the orthographic projections of an object whose isometric view is given below.

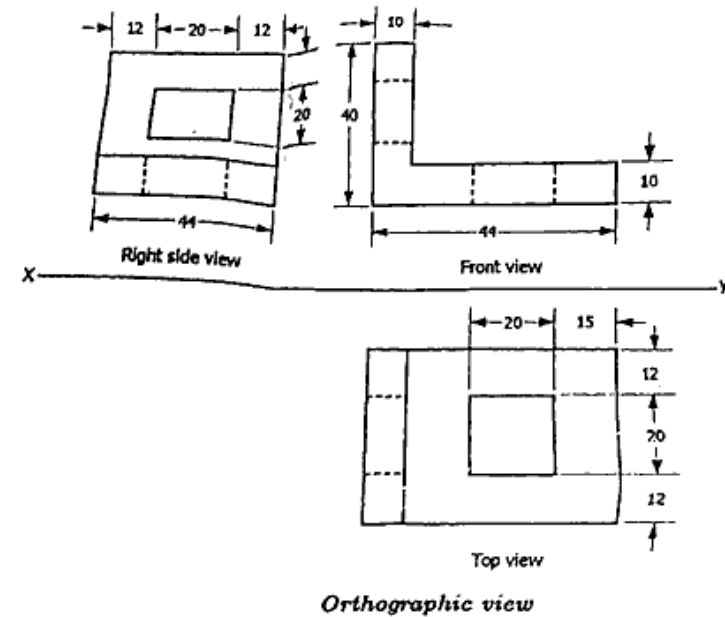


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9 Draw the Isometric view of an object whose orthographic projections are given below.



10 A cone of base diameter 40 mm and slant height 60 mm is standing vertically on HP. It is cut by a plane which is inclined at 45° to HP, perpendicular to VP and passing through the midpoint of the axis. Develop the lateral surface of the frustum.

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