



C16-EE-107

5153

BOARD DIPLOMA EXAMINATION, (C-16)
MARCH/APRIL—2018
DEEE—FIRST SEMESTER EXAMINATION
ENGINEERING DRAWING—I

Time : 3 hours]

[Total Marks : 60

PART—A

5×4=20

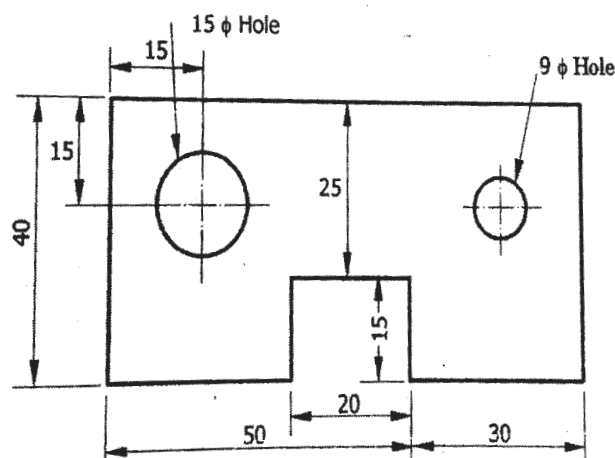
Instructions : (1) Answer **all** questions.

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

1. Print the following in Single-Stroke Vertical letters in 10 mm size :

‘GREAT MINDS DISCUSS IDEAS’

2. Redraw the following figure in Full-scale according to SP : 46-1988 :



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3. Draw the tangent to a circle of radius 30 mm from a point which is at a distance of 80 mm from the center of the circle.
4. The surface of a pentagone of side 40 mm is parallel and 25 mm in front of the VP. One of its sides makes an angle of 30° with HP. Draw its projections.

PART—B

10×4=40

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

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

5. Draw ellipse whose major and minor axis are 80 mm and 60 mm by concentric circles method.
6. Draw an involute of a circle of radius 20 mm.
7. A pentagonal prism side of base 25 mm and axis 50 mm long rests on HP with one of its edges such that the base containing that edge makes an angle of 30° with HP and its axis is parallel to VP. Draw its projections.
8. Draw the projections of a cone base 30 mm diameter and axis 50 mm long resting on HP on a point of its base circle with the axis making an angle 45° with HP and parallel to VP.
9. A hexagonal pyramid of base side 30 mm and height 75 mm is resting on the ground with its axis vertical. It is cut by a plane inclined at 30° to the HP and passing through a point on the axis at 20 mm from the vertex. Draw the sectional front view, top view and true shape.

10. Draw sectional front view and top view for the object shown below :

