



C09-CHPC-107/C09-EC-107/C09-PET-107

3032

BOARD DIPLOMA EXAMINATION, (C-09)

MARCH/APRIL—2014

DECE—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

Time : 3 hours ]

[ Total Marks : 60

**PART—A**

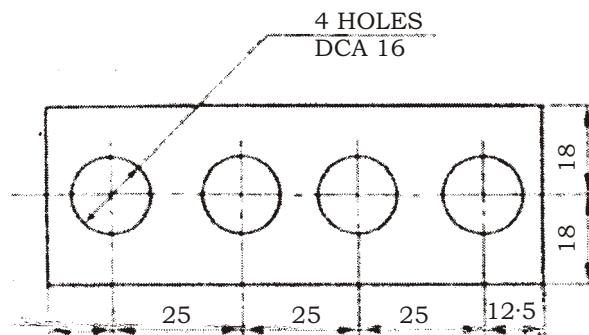
5×4=20

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **five** marks.  
(3) Drawing should be neat and clear with the necessary dimensions.  
(4) All dimensions are given in mm.

1. Print the following in single-stroke capital inclined letters in 10 mm size :

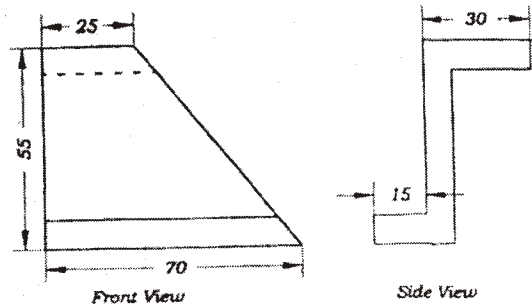
“ELECTRONICS AND COMMUNICATIONS”

2. Redraw the given figure to full-scale using progressive dimensioning :



3. Construct a regular hexagon for the given side of 30 mm.

- \* 4. Draw the auxiliary view of the object whose front view and side view are given :

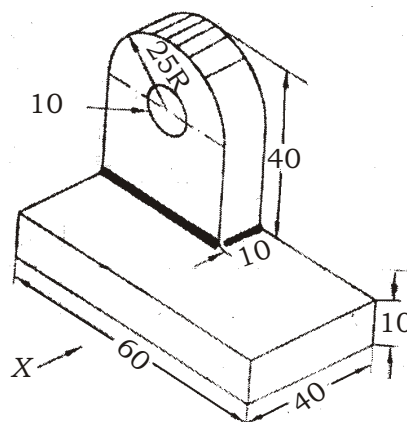


**PART—B**

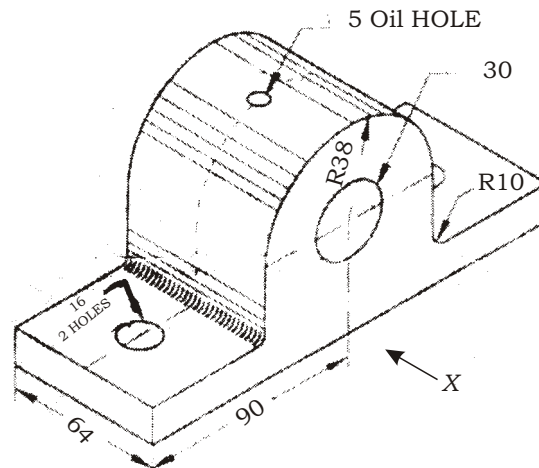
10×4=40

- Instructions :** (1) Answer *any four* questions.  
 (2) Each question carries **ten** marks.  
 (3) Drawing should be near and clear with the necessary dimensions.  
 (4) All dimensions are given in mm.

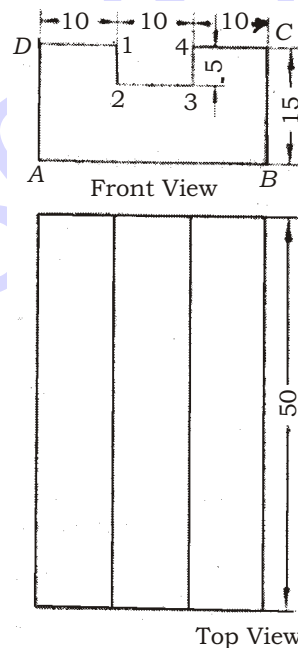
5. A circle of 50 mm diameter rolls along a line. A point on the circumference of the circle is in contact with the line in the beginning and after one complete revolution, draw the cycloidal path of the point.
6. A straight line *AB* of length 70 mm is parallel and 20 mm in front of VP. It is inclined at 45° to HP and one end is on it. Draw its projections.
7. Draw the three views of the object given below in the direction of arrows.



- \* 8. Draw half-sectional front view looking from X, half sectional side view and top view of the object (Journal bearing) shown below :



9. Draw the isometric projections of the object, the views of which are given below :



- \* 10. A right circular cone of base 6 cm diameter and 10 cm high rests on its base on HP is cut by a plane inclined at  $45^\circ$  to the HP and passing through the middle point of the axis. Draw the development of the surface showing the line of section.

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