



C-14-EE/CHPP-107

4044

BOARD DIPLOMA EXAMINATION, (C-14)

OCT/NOV—2015

DEEE—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

Time : 3 hours ]

[ Total Marks : 60

PART—A

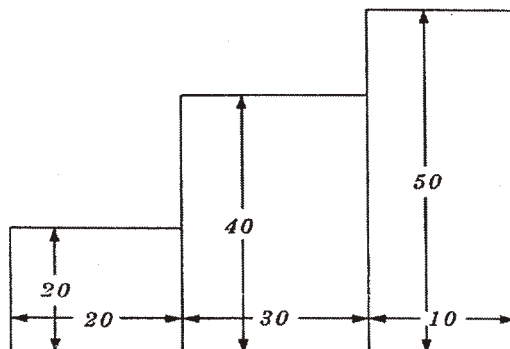
5×4=20

- Instructions :** (1) Answer **all** questions.  
(2) Each question carries **five** marks.  
(3) All dimensions are in mm.  
(4) Use first angle projection.

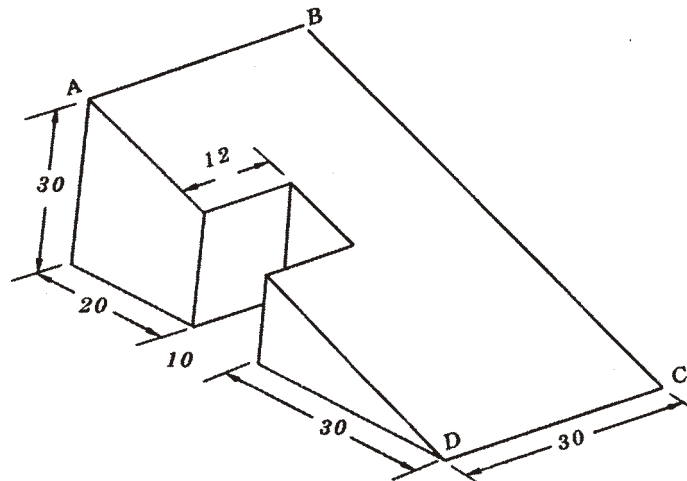
1. Print the following in single-stroke vertical capital lettering of 10 mm size :

“WORK HARD AND ACHIEVE SUCCESS”

2. Redraw the following figure to full size scale and dimension it using progressive dimensioning method, as per SP 46:1988 :



- \* 3. Draw a tangent to the circle of radius 25 mm from a point of 90 mm from the centre.
4. Draw the auxiliary view of inclined surface of the object shown in the figure below :



**PART—B**

10×4=40

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

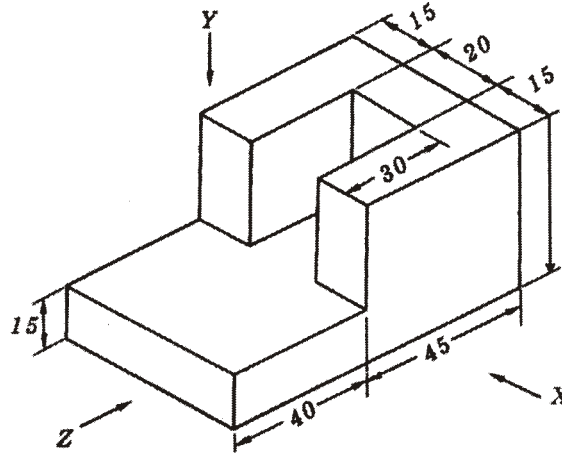
(2) Each question carries **ten** marks.

(3) All dimensions are in mm.

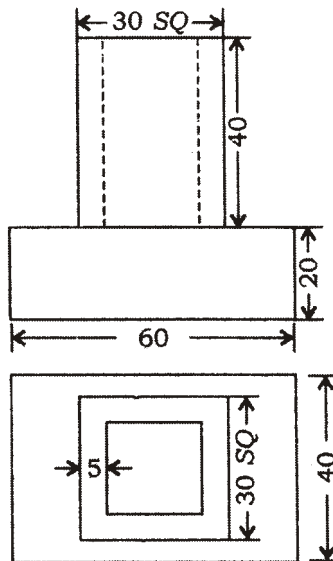
(4) Use first angle projection.

5. Draw the cycloid for a given circle of 25 mm radius.
6. A line of length 80 mm is parallel to VP and 15 mm in front of VP. It is inclined at  $45^\circ$  to HP and its one end is on HP. Draw its projections.
7. A cylinder of base diameter 40 mm and height 80 mm rests on its base on HP. A cutting plane perpendicular to VP and inclined at  $30^\circ$  to HP cuts it through a point 40 mm from base on the axis. Draw the front view and sectional top view.

- \* 8. Draw the orthographic views of the object shown in the figure below :



9. Draw the isometric drawing of an object whose front view and top view are given below :



- \* 10. A hexagonal prism of base side 30 mm and axis 50 mm is standing on HP on its base whose one side is parallel to VP. It is cut by a section plane inclined at  $45^\circ$  to HP, through midpoint of axis. Draw the development of the bottom portion of the prism.

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