



C16-C/CM-107

6020

BOARD DIPLOMA EXAMINATION, (C-16)

MARCH/APRIL—2018

DCE—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

Time : 3 hours ]

[ Total Marks : 60

PART—A

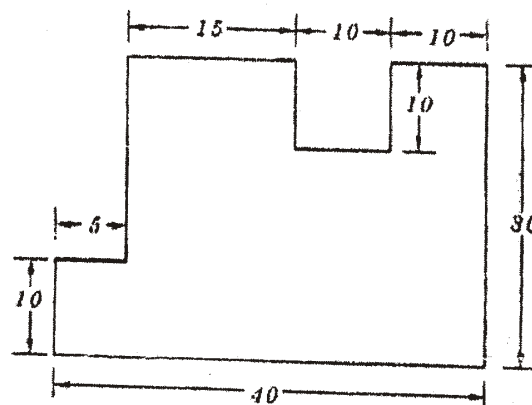
5×4=20

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

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

“CLEAN AND GREEN IS OUR PERFECT DREAM”

2. Redraw the following figure to full-scale and dimension it according to SP : 46—1988 by using aligned system :



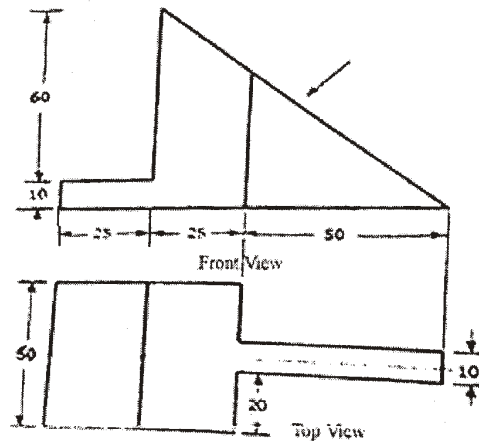
/6020

1

[ Contd...

WWW.MANARESULTS.CO.IN

3. Draw a common external tangent to two circles of radii 25 mm and 20 mm. The distance between the centres of circles is 75 mm.
4. Draw the auxiliary view of the object shown below :



**PART—B**

10×4=40

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

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

(3) All dimensions are in mm.

5. Draw a helix of cylinder diameter 50 mm and pitch 70 mm.
6. Draw the top view and front view of a circular plane, if the surface of the plane is perpendicular to HP and inclined at  $30^\circ$  to VP.
7. A hexagonal pyramid of base side 30 mm and axis 75 mm long is resting on its base in HP having a base side parallel to VP. It is cut by a section plane which is inclined at  $30^\circ$  to HP, perpendicular to VP and passing through a point on the axis at a distance of 35 mm from the vertex. Draw its sectional front view and sectional top view.

