Model Paper for End Examination

MODEL PAPER – BOARD DIPLOMA EXAMINATION, (C–23)DCE— FIRST YEAR EXAMINATION ENGINEERING DRAWING (C-107)

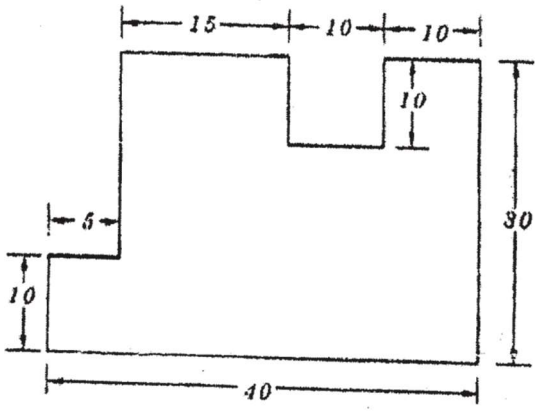
Time: 3 hours] **[Total Marks: 60**

PART—A **(4 X 5 = 20 Marks)**

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

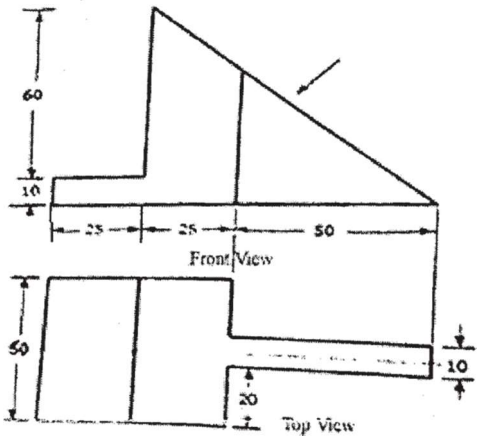
1. Write the following in single-stroke vertical lettering of size 10 mm in capital letters: "CLEANAND GREEN IS OUR PERFECT DREAM" (CO1)

2. Redraw the following figure to full-scale and dimension it according to SP : 46—1988byusingalignedsystem:
(CO1)



3. Drawacommonexternaltangenttotwocirclesofradii25 mm and 20 mm. The distance betweenhecentresofcirclesis75mm.
(CO2)

4. Draw the auxiliary view of the objects given below: (CO3)



PART—B **(4 x 10=40)**

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

(2) Each question carries ten marks.

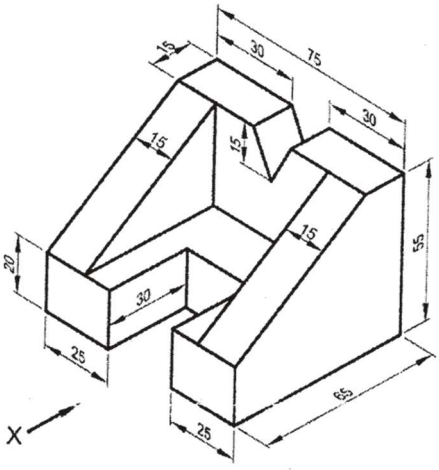
(3) All dimensions are in mm.

5. Drawahelixofcylinderdiameter50mmandpitch70mm. (CO2)

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 30º to VP. (CO3)

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 30º to HP, perpendicular to VP and passing through a point on the axis at a distance of 35 mm from thevertex. Draw its sectional front view and sectional top view. (CO3)

8. Draw the Front view, top view and side view of the given figure: (CO3)



9. Draw the isometric view of the object for the views given below. (CO4)

10. A right circular cone of diameter 50 mm and axis 75 mm long is resting on its base in HP. It is cut by a section plane which is perpendicular to VP, inclined at 60º to HP and passing through apoint on the axis at a height of 40 mm from the base. Draw the surface development of the bottom position of truncated cone. (CO5)