

7038

BOARD DIPLOMA EXAMINATION, (C-20)

MAY—2023

DEEE - FIRST YEAR EXAMINATION

ENGINEERING DRAWING

Time : 3 Hours]

[Total Marks : 60

PART—A

5×4=20

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

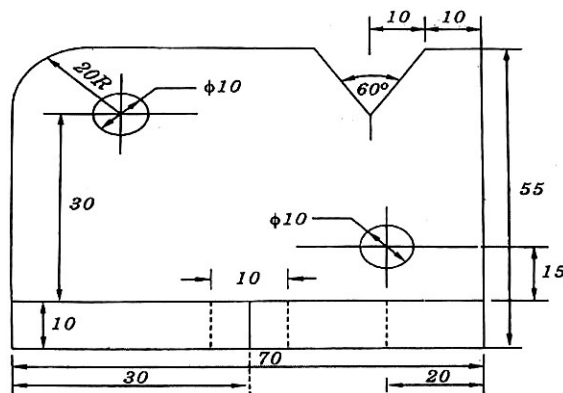
(2) Each question carries **five** marks.

(3) All dimensions are in mm.

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

“CLEAN AND GREEN OUR PERFECT DREAM”

2. Redraw the following figure to full scale and dimension as per aligned system.



3. Draw a tangent to a circle of 30 mm diameter from a point at a distance of 50 mm from the centre of the circle.

4. A line AB of length 80 mm is lying on H.P. The end A is 20 mm and end B is 60 mm from V.P. respectively. Draw the front view and top of this line.

PART—B

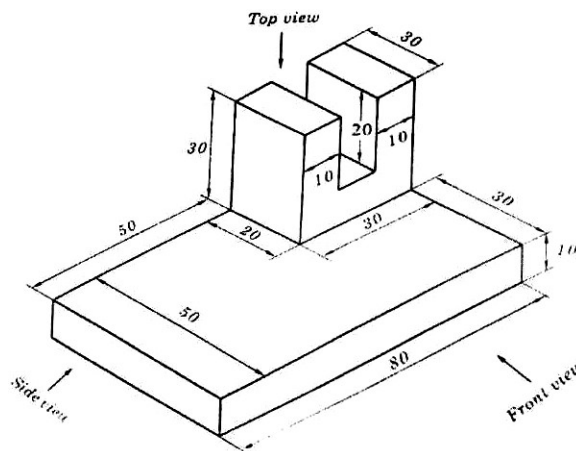
10×4=40

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

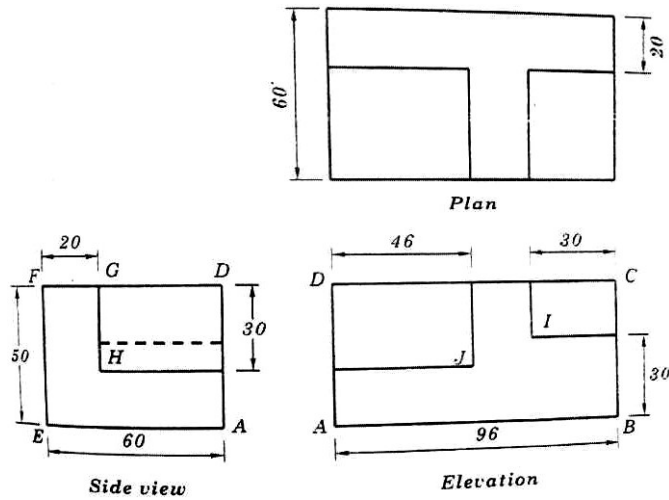
(2) Each question carries **ten** marks.

(3) All dimensions are 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 pentagonal prism of base side 25 mm and height 50 mm is resting on H.P., with one of its base sides which is perpendicular to V.P., such that the axis is making an angle of 45° to H.P. and parallel to V.P. Draw the orthographic projections on its V.P. and H.P.
7. A cylinder of base radius 30 mm and height 60 mm is resting on its base on H.P. It is cut by a plane perpendicular to V.P. and inclined at 30° to H.P. Draw its sectional front view, top view of the section.
8. The pictorial view of an object is given below. Draw the orthographic projections shown by the arrow heads.



9. Draw the isometric view of an object whose plan, elevation and side views are shown in the figure :



10. A cone of base 50 mm, diameter and height 60 mm rests with its base on H.P. A section plane perpendicular to V.P. and inclined at 30° to H.P., bisects the axis of the cone. Draw the development of the lateral surface of the truncated cone.

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