7038

BOARD DIPLOMA EXAMINATION, (C-20)

SEPTEMBER/OCTOBER—2021

DEEE - FIRST YEAR EXAMINATION

ENGINEERING DRAWING

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

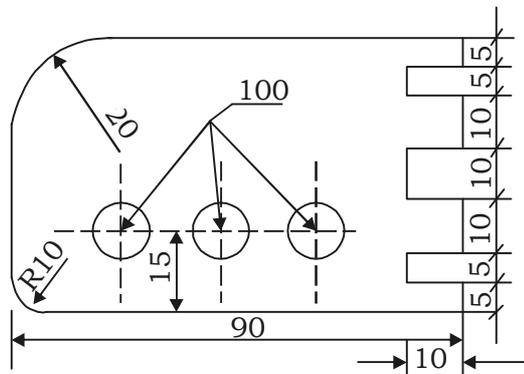## PART—A   5×4=20

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

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

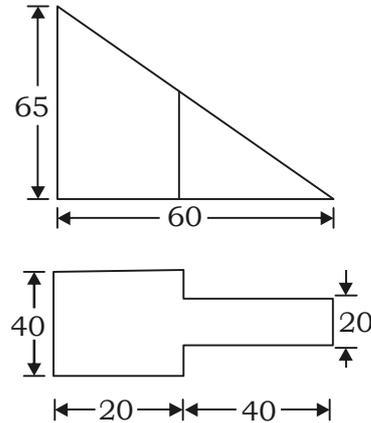(3) **All** dimensions are in mm.

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

"CREATIVITY IS THE KEY TO SUCCESS"

2. Redraw the given figure to full scale, dimension it as per SP : 46-1988 :

3. Construct regular pentagon of side 25 mm by any one method.

4. Draw the auxiliary view of the inclined surface of the figure given 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. Construct a cycloid of circle of radius 30 mm.

6. Draw the projections of a Cone with base 30 mm diameter and axis 50 mm long resting on HP on a point of its base circle with the axis making an angle 45° with HP and parallel 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° 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.

8. Draw the front view and top view of the object shown below :

9. Draw an isometric view of an object whose orthographic views are given below :

Front View

Left Side View

Top View

10. Develop the lateral surface of truncated cone of base diameter 60 mm and a vertical height of 80 mm, when it is cut by a plane inclined at an angle of 45° to horizontal plane and passes through the midpoint of its axis.

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