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C16–EE/CHPP–**107**

6038

BOARD DIPLOMA EXAMINATION, (C–16)

SEPTEMBER/OCTOBER - 2020

DEEE—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

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

PART—A 5×4=20

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

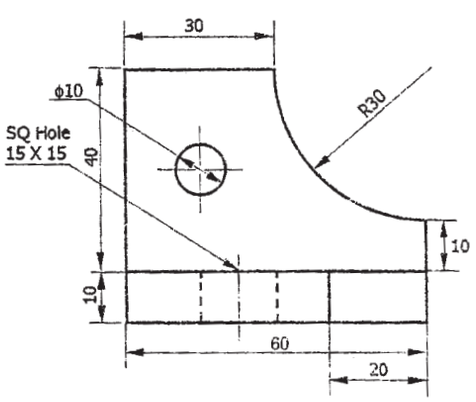
(2) Each question carries **five** marks.

(3) All dimensions are in mm.

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

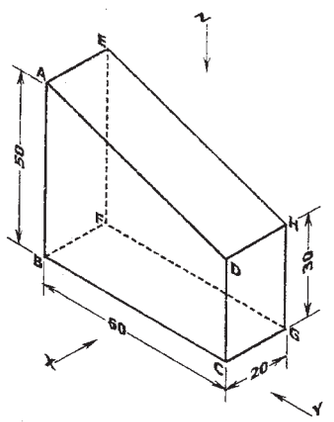
"DRAWING IS THE LANGUAGE OF ENGINEERS"

2. Read the dimensional drawing as shown below. Draw it to fill scale and dimensions as SP–46 : 1988 :



3. Draw the tangents to a circle of diameter 40 mm from points *P* at a distance of 60 mm from the centre.

4. Draw the auxiliary view of the inclined surface of the object as shown in figure below :



PART—B 10×4=40

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

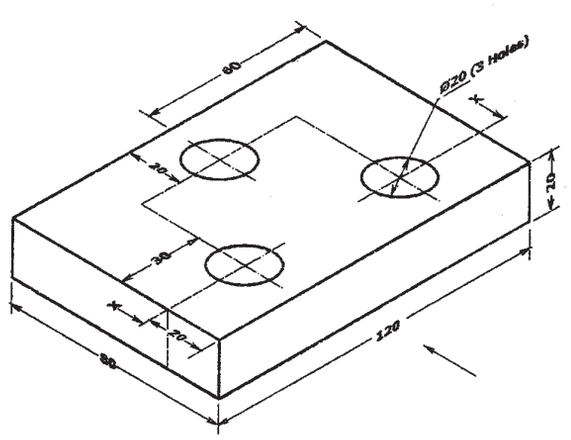
(2) Each question carries **ten** marks.

(3) All dimensions are in mm.

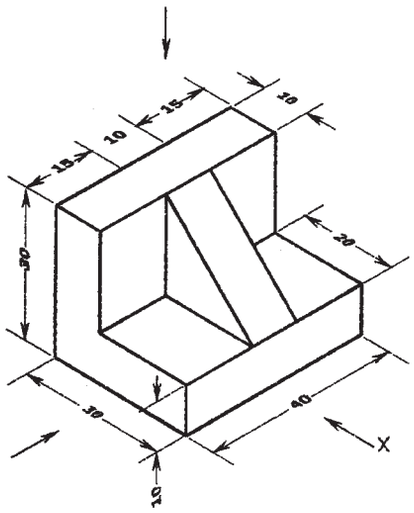
5. Draw an involute to a circle of radius 20 mm.

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

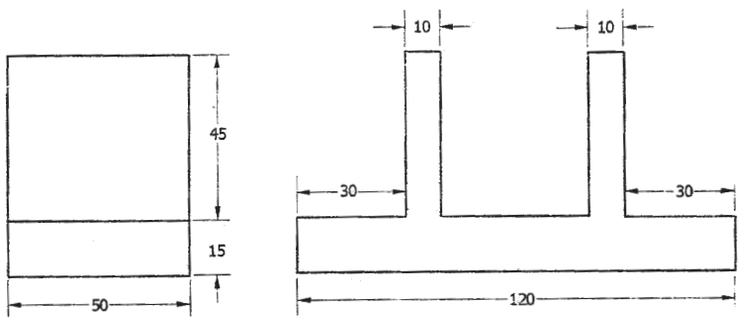
7. Draw sectional front view and top view for the object shown below :



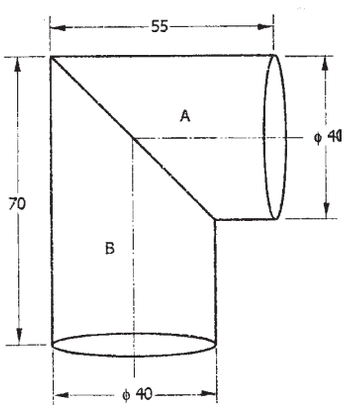
8. Draw orthographic views of front view and top view of the given block below :



9. Draw isometric view of the orthographic view given below :



10. Draw the development of an elbow in two pieces at 90° shown below :



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