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C09–CHPP–107/C09–EE–**107**

3038

BOARD DIPLOMA EXAMINATION, (C–09)

OCT/NOV—2014

DEEE—FIRST YEAR EXAMINATION

ENGINEERING DRAWING

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

PART—A 5×4=20

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

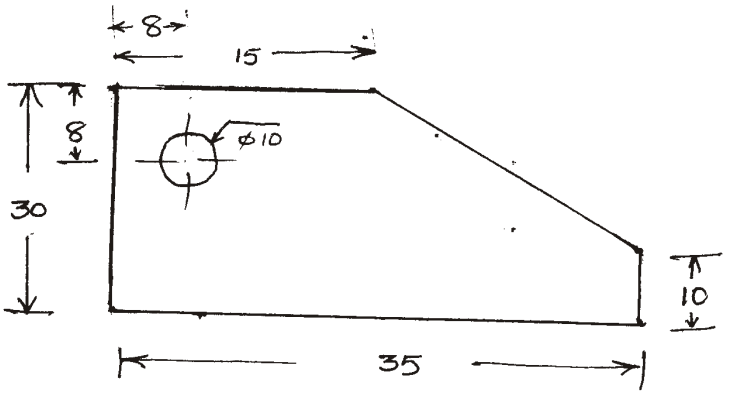
(2) Each question carries **five** marks.

(3) All dimensions are in mm.

1. Print the following in single-stroke capital inclined letters in 12 mm size :

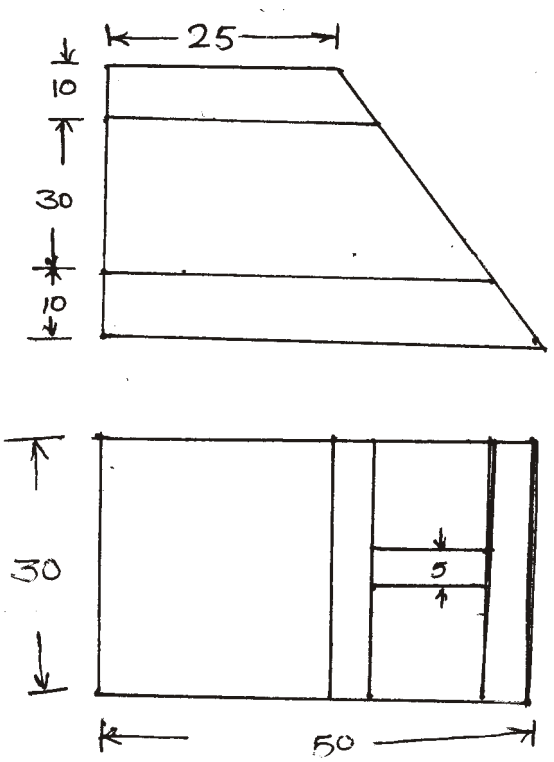
"ELECTRICAL ENGINEER"

2. Draw the following figure and show the dimensions per aligned system :



3. Draw a common external tangent to two unequal circles radii 26 mm and 20 mm. The distance between the centres of circles is 75 mm.

4. Draw the auxiliary view of an object whose front and top views are given below :



PART—B 10×4=40

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

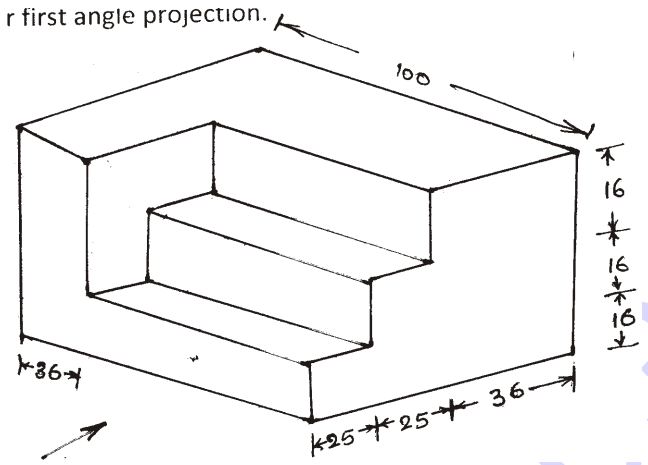
(2) Each question carries **ten** marks.

(3) All dimensions are in mm.

5. Draw the involute of a pentagon of 15 mm side.

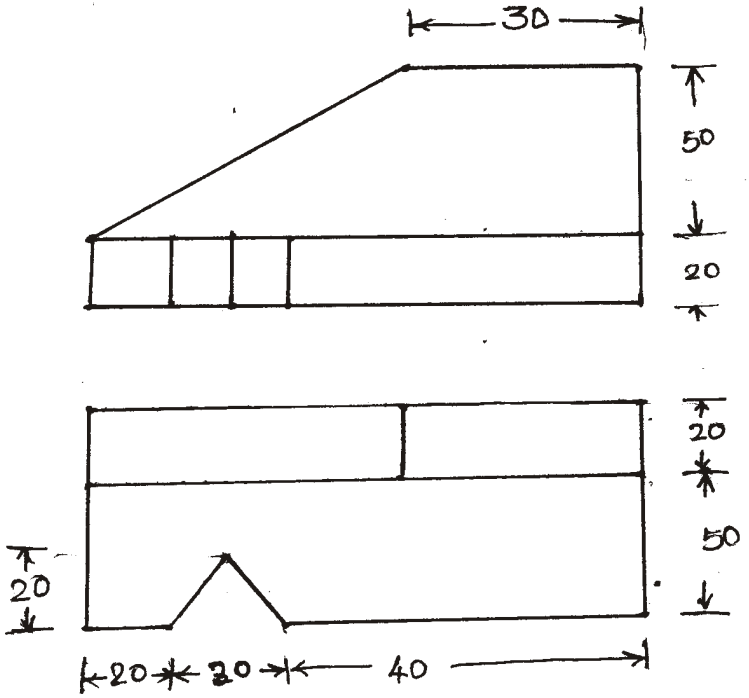
6. Draw the front view and top view of a pentagonal plane of side 30 mm, which is making an angle of 45° to HP. One of its side is perpendicular to UP.

7. Draw the front, top and side views of the following object shown below as per first-angle projection :



8. A cone is standing on HP with base dia of 30 mm and axis 70 mm. It is cut by a sectional plane at 45° to the HP and perpendicular to VP, passing through midpoint of axis. Draw its front and top views.

9. The front view and top view of a block are shown below. Draw its isometric view :



10. A hexagonal pyramid of side 25 mm and height 60 mm is resting on its base in HP. One of its base side is parallel to VP. It is cut by a cutting plane which is parallel to HP and perpendicular to VP and passing through a height of 40 mm from the bottom. Draw the development of surface.

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