* 3005 *

C09–A–107/C09–AEI–107/C09–BM–107/C09–C–107/
C09–CM–107/C09–CH–107/C09–CHPP–107/C09–CHPC–107/
C09–CHOT–107/C09–CHST–107/C09–EC–107/C09–EE–107/
C09–IT–107/C09–MET–107/C09–M–107/C09–MNG–107/
C09–PET–107/C09–TT–107/C09–RAC–**107**

# 3005

## BOARD DIPLOMA EXAMINATION, (C–09)

## OCT/NOV—2016

## FIRST YEAR (COMMON) EXAMINATION

ENGINEERING DRAWING

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

**PART—A** 5×4=20

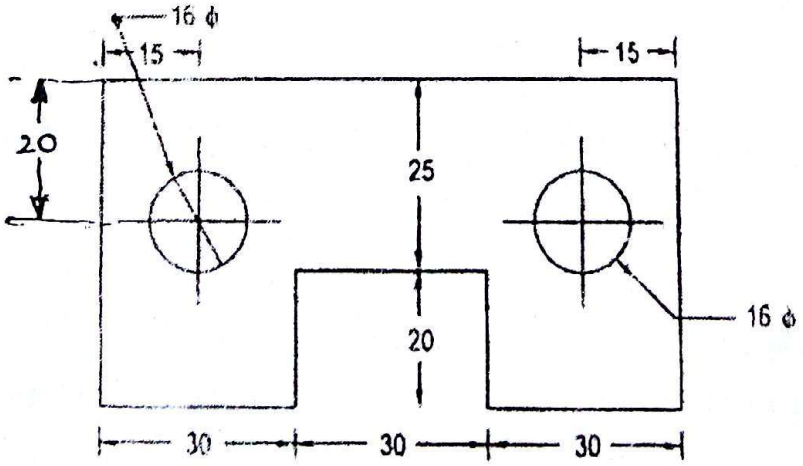
***Instructions*** : (1) Answer **all** questions.

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

**1.** Write the following in single-stroke inclined letters of size 10 mm as prescribed in SP : 46–1988 :

"STATE BOARD OF TECHNICAL EDUCATION"

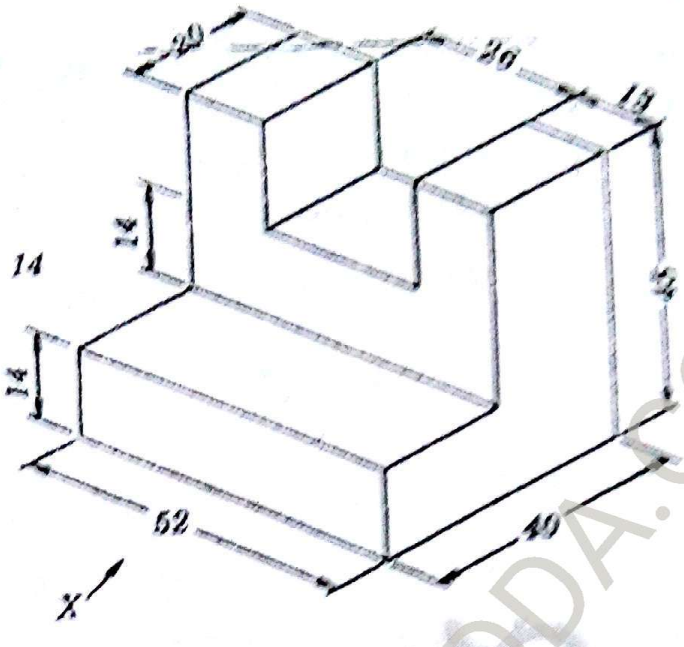
**2.** Redraw the following figure and dimension it as per SP : 46–1988 :






Scanned by CamScanner

3. Draw* the front view of the figure shown below :




4. The following figure shows the front and side view of an object. Draw the auxiliary view in the direction of the arrow.

## PART—B

10×4=40

***Instructions*** : (1) Answer *any* **four** questions.
(2) Each question carries **ten** marks.

5. Construct a cycloidal curve through a point on the circumference of a circle of radius 30 mm.

6. A regular hexagonal plane of side 30 mm is inclined at 45° to VP and is perpendicular to HP. Draw the projections of the plane.



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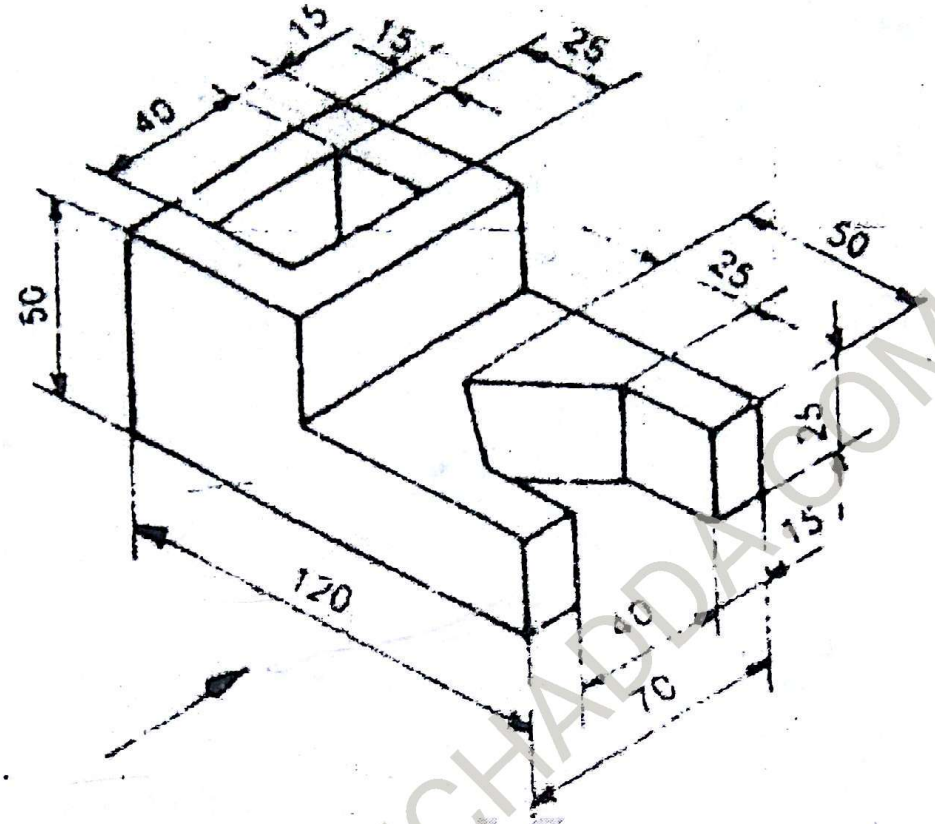
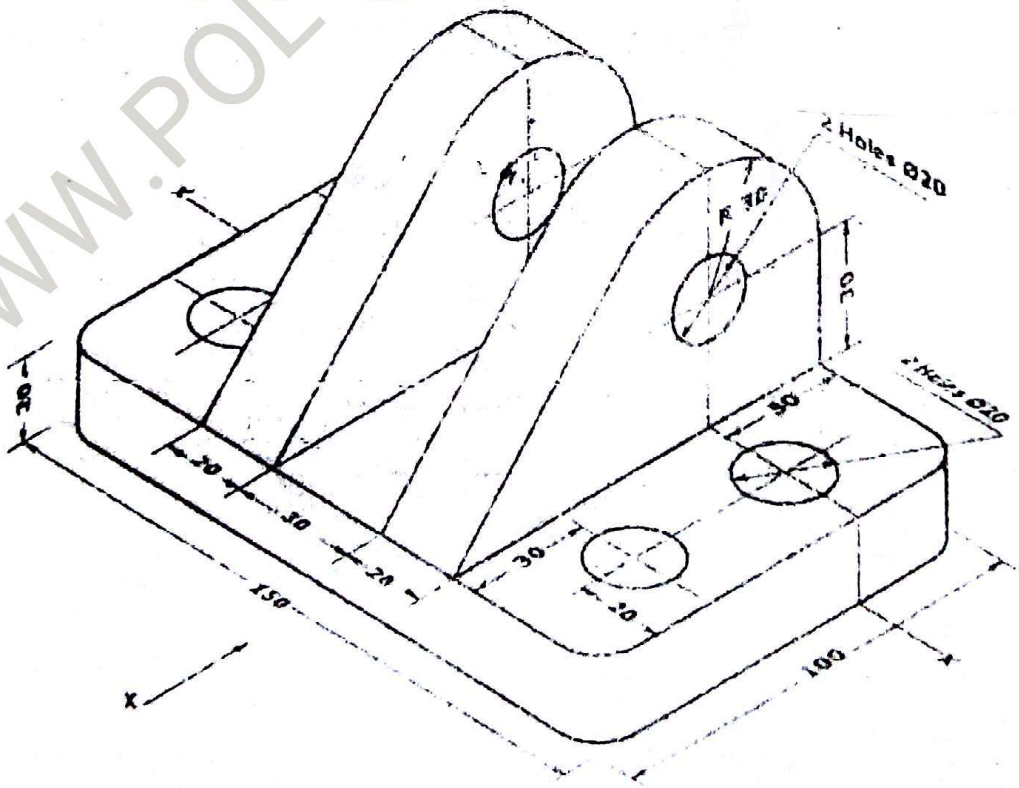
7. Draw* the front view, top view and right side view of the figure shown below :




8. A bearing bracket is shown in the figure. Draw *(a)* sectional front view, *(b)* top view and *(c)* right side view when section plane is *X-X*.



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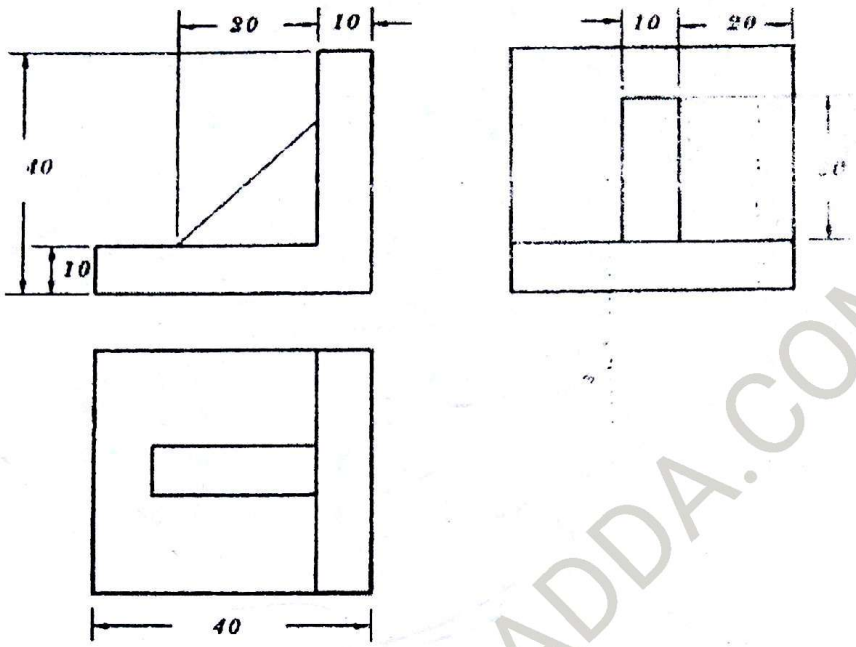
9. Draw* the isometric view of the ribbed angle plate shown in figure below. All dimensions are in mm and the views are given in the first angle :




10. Draw the development of pentagonal pyramid of 30 mm base side and 60 mm long axis which is resting on its base in the HP.

★ ★ ★

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