



C14-A/CH/CHST/AEI/FW/MNG/MET/
IT/TT/PKG/C/EC/EE/M/CM-107

4005

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH / APRIL - 2019

FIRST YEAR (COMMON) EXAMINATION

ENGINEERING DRAWING

Time : 3 Hours]

[Total Marks : 60

PART - A

4×5=20

- Instructions :**
- (1) Answer **ALL** questions.
 - (2) Each question carries **FIVE** marks.
 - (3) Drawing should be neat and clear with the necessary dimensions.
 - (4) All dimensions are in mm.

- 1 Print the following in single stroke vertical capital lettering of 10 mm size as per SP : 46-1988.

"ORTHOGRAPHIC PROJECTIONS"

- 2 Redraw the following figure and dimension in aligned system.

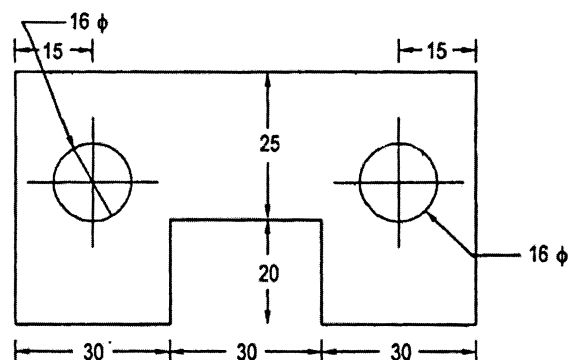


Fig. 1

4005]

1

[Contd...

- 3 Draw a regular pentagon having 40 mm side using general method.
- 4 Draw the auxiliary view for the object shown in the fig 2.

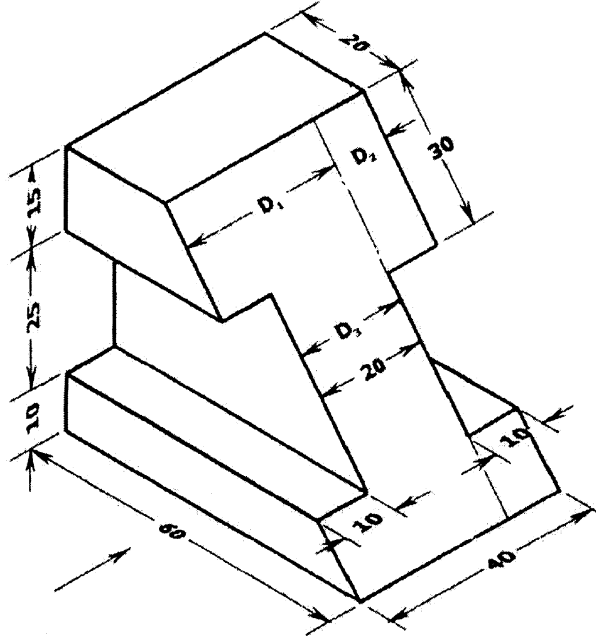


Fig. 2

PART - B

10×4=40

- Instructions :**
- (1) Answer **FOUR** questions.
 - (2) Each question carries **TEN** marks.
 - (3) Drawing should be neat and clear with the necessary dimensions.
 - (4) All dimensions are in mm.

- 5 Draw a cycloid for one complete revolution of a circle having a 50 mm diameter. Draw a tangent and a normal to the curve at a point 35 mm above the base line.
- 6 A regular hexagonal plate ABCDEF, 25 mm side, is resting on H.P. on one of the sides with surface of the plate making 40° with H.P. and perpendicular to V.P. Draw the projections of the plate.

- 7 Draw the orthographic views of the block shown in the following figure 3.
(a) Front view (b) Top view (c) Left side view

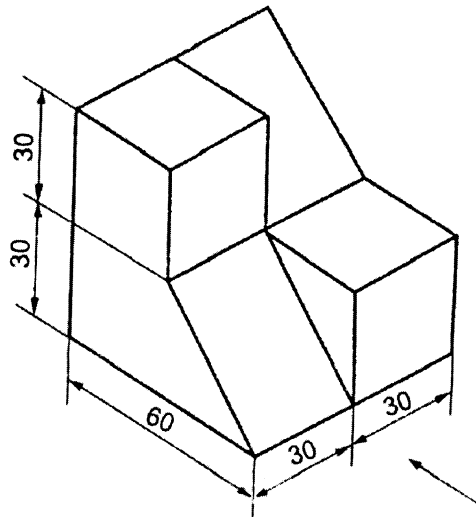


Fig. 3

- 8 A triangular prism of base 30 mm side and axis 50 mm long, is lying on H. P. on one of its rectangular faces, with its axis inclined at 30° to V.P. It is cut by a section plane, parallel to H.P. and at a distance of 14 mm above H.P. Draw the front and sectional top view.
- 9 Draw the isometric view of the object from the following orthographic views.

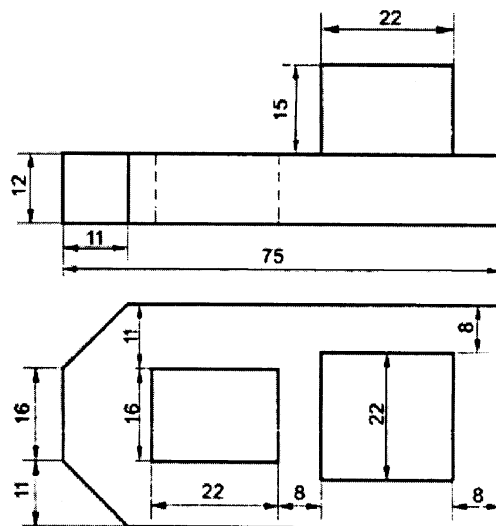


Fig. 4

- 10 A cone of base 50 mm diameter and height 65 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.