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### C16-A/BM/CH/CHST/AEI/MNG/ MET/TT/IT/PCT-107

## 6005

# BOARD DIPLOMA EXAMINATION, (C-16), FIAP MARCH/APRIL-2017

FIRST YEAR (COMMON) EXAMIN

ENGINEERING DRAW

Time : 3 hours ]

Total Marks: 60

## PART

5×4=20

Instructions : (1) Answer all guestions.

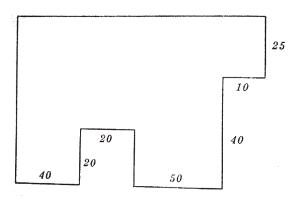
(2) Each question carries five marks.

(3) All dimensions are in mm.

1. Write the following using single-stroke capital upright letters of 10 mm size 🤅

'SWACHH BHARAT ABHIYAN'

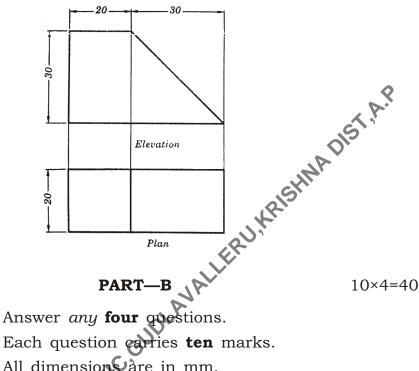
Redew the following figure in parallel dimensioning : 2.



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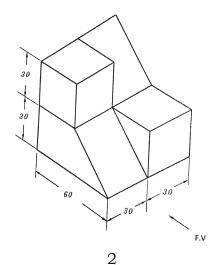
[ Contd...

- 3. Construct a regular pentagon of side 30 mm.
- 4. Draw the auxiliary view of the inclined surface of the given views :



Instructions : (1) Answer any four goestions.

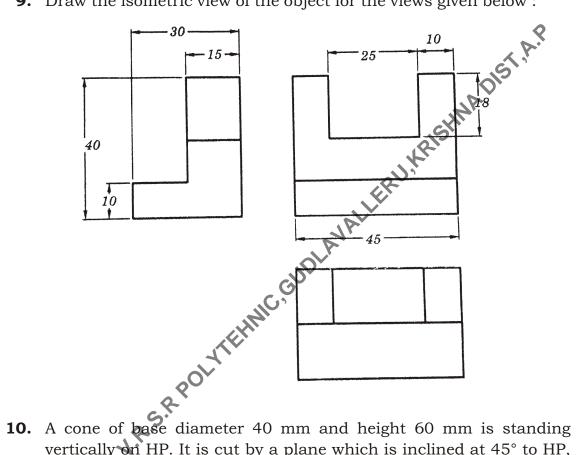
- (2) Each question carries ten marks.
- (3) All dimensions are in mm.
- 5. Draw the cycloid curve for a circle of radius 20 mm.
- 6. Draw the projections of cone with base diameter of 30 mm and height 60 mm resting on HP on a point of its base circle and its axis is making an angle 45° with HP and parallel to VP.
- An isometric view of an object is given below. Draw its front view,m 7. top view and left side view. A.A.H.M





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- 8. A hexagonal prism of base edge 30 mm and height 60 mm is resting on HP with one of its base edges parallel to VP. It is cut by a plane perpendicular to VP and inclined at 45° to HP and is passing through midpoint of axis of prism. Draw the sectional top view and true shape of the section.
- 9. Draw the isometric view of the object for the views given below :



vertically on HP. It is cut by a plane which is inclined at 45° to HP, perpendicular to VP and passing through the midpoint of the axis. Develop the lateral surface of the frustum of the cone.

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