

C14-A-107/C14-BM-107/C14-CH-107/ C14-CHST-107/C14-AEI-107/C14-MNG-107/

 $c_{14-MET-107/c_{14-IT-107/c_{14-TT-107/c_{14-PC}-107/c_{14-PC}-107/c_{14-PC}-100}}}}}$

4005

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL-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.
- (3) All dimensions are in mm.
- **1.** Write the following in single stroke vertical letters of size 10 mm : "FORGIVE HONEST MISTAKES"
- 2. Redraw the following figure in parallel dimensioning :



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- **3.** Draw a common internal tangent to two given circles of equal radii of 20 mm which are 70 mm apart :
- **4.** Draw the auxiliary view of the object whose orthographic views are given below :



Instructions : (1) Answer any four questions.

- (2) Each question carries **ten** marks.
- (3) All dimensions are in mm.
- **5.** A circle of 50 mm diameter rolls along a line. A point on the circumference of the circle is in contact with the line in the beginning and after one complete revolution, draw the cycloidal path of the point.
- **6.** Draw the projections of a line *AB*, 65 mm in length and making 30° to VP and parallel to HP. The end *A* is 25 mm from both VP and HP.
- **7.** A pentagonal pyramid of base side 40 mm and height 75 mm is resting on HP on its base with one of its sides parallel to VP. It is cut by a section plane inclined at 30° to HP, perpendicular to VP and is bisecting the axis. Draw its front view and sectional top view.



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8. Draw the front view, top view and side view of the object shown below :





9. Draw the isometric projection of the object for the orthographic views given below :



10. A right circular cone of base 60 mm diameter and 100 mm high rests on its base on HP is cut by a plane inclined at 45° to the HP and perpendicular to VP, also passing through the middle point of the axis. Draw the development of the surface of the truncated cone.



AA16—PDF