1123 **Code : 15CE12D**

Register Number | | | | | | | | | | |

I Semester Diploma Examination, Nov./Dec. 2018

ENGG. DRAWING-I

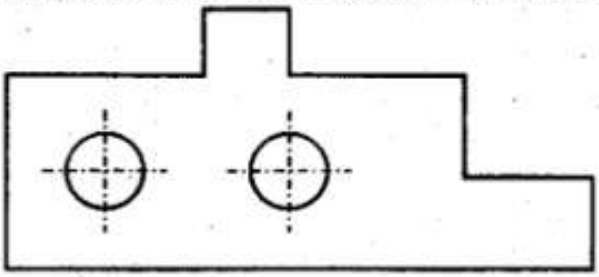
Time : 4 Hours] **[Max. Marks : 100**

Note : Answer any **four** questions from Section – A and any **four** questions from Section – B.

SECTION – A

1. Print the following statement to a height of 20 mm in single stroke capital letters.
   SAVE RAIN WATER TO GROW **10**

2. Copy the given sketch to full size and dimension it in unidirectional system. **10**



3. Draw a common internal tangent by an arc of radius 90 mm to a circle of radius 30 mm and externally to another circle of radius 15 mm. The centres of two circles are 80 mm apart. **10**

4. Inscribe three equal circles in a regular Hexagon of side 60 mm so as to touch two sides and two adjacent circles. **10**

5. Construct an ellipse whose major and minor axis are 110 mm and 70 mm respectively using concentric circles method. **10**

6. A point "P" is 25 mm in front of VP, 30 mm above HP and 30 mm in front of left P.P. Draw the three principal views of the point. **10**

SECTION – B

7. Inscribe a parabola in a Rectangle 120 mm and 80 mm. **15**

8. The distance between two stations is 600 km. It is represented on a Road map by a line of 20 cm long. Construct a diagonal scale to measure kilometers and find its R.F. Show a distance of 349 km on it. **15**

9. Draw the three principal views of a line 90 mm long placed parallel to VP and perpendicular to HP. The line is 60 mm in front of VP and 50 mm in front of right PP. The lower end of the line is 40 mm above H.P. **15**

10. A line AB is 80 mm long and one of its end is 30 mm in front of VP and 30 mm above HP. The line is inclined at 30° to HP and 45° to VP. Draw the top and front views. **15**

11. An equilateral triangular lamina of side 50 mm rests with one of its sides on HP so that the surface of lamina is inclined at 40° to HP. The side on which the lamina rests is inclined at 60° to VP. Draw the projections of the Lamina. **15**

12. A Hexagonal Lamina of sides 30 mm rests on one of its sides on HP so that the surface of the lamina is inclined at 30° to HP. The side on which the lamina rests is inclined at 45° to VP. Draw the top and front views of the lamina. **15**