

DIPLOMA IN CIVIL ENGINEERING DCLE(G)
DIPLOMA IN MECHANICAL ENGINEERING
(DME)

DCLEVI/DMEVI/DELVI/DECVI/DCSVI/
ACCLEVI/ACMEVI/ACELVI/ACECVI/ACCSVI

Term-End Examination

June, 2013

BET-016 : ENGINEERING DRAWING

Time : 2 hours

Maximum Marks : 70

Note : Question No.1 and 2 are compulsory and are to be attempted on Answer script and other on Drawing sheet. Answer any Two questions from the remaining four question

1. Answer the following in brief. 7x2=14
- (a) Name any Four Drawing instruments.
- (b) Match the following lines with their Applications.
- (i) Continuous thick - Hidden out lines
- (ii) Chain thin - Dimension line
- (iii) Dashes thick - Centre line
- (iv) Continuous thin - Visible out line
- (c) The Ratio of length of Drawing to the actual length of an object is called _____
- (d) What is a French Curve ?

- (e) What is the difference between Aligned System of Dimensioning and unidirectional system of Dimensioning.
- (f) Write the conventional representation for following materials generally used in Drawing.
- (i) wood
- (ii) concrete.
- (g) A point is said to be in III quadrant, when the point is _____ HP and _____ VP.
2. (a) The distance between Mumbai and Pune is 160km. It is represented on a railway map by 8 cm. Find the R.F. Construct a plain scale for this map to read 2 km and long Enough to read upto 200 km. **7**
- (b) Construct a Hexagon of side 40 mm. **4**
- (c) Draw the symbol adopted by BIS for First angle projection. **3**
3. (a) Draw the Development of a cone of base diameter 60mm and height 70 mm. **16**
- (b) Draw the isometric view of a circle of diameter 50 mm in horizontal position. **05**
4. A Regular hexagonal plane of 45 mm side is resting on a corner on HP and the surface of the plane is inclined at 60° to HP and perpendicular to VP. Draw the front view and top view of plane in III angle projection. **21**

5. A cone of base 60 mm and height 70 mm is resting on its base on the ground. It is cut by a section plane perpendicular to VP, inclined at 45° to HP, at a point 30 mm below the Apex. Draw its Front view, Sectional top view in III angle projection. 21
6. Construct an Ellipse having Major axis 130 mm and minor axis 90 mm by parallelogram method. 21
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