DIPLOMA IN CIVIL ENGINEERING DCLE(G)
DIPLOMA IN MECHANICAL ENGINEERING (DME)
DCLEVI/DMEVI/DELVI/DECVI/DCSVI/ ACCLEVI/ACMEVI/ACELVI/ACECVI/ACCSVI

Term-End Examination
December, 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 others on Drawing sheet. Answer **any Two** questions from the remaining **four** questions.*
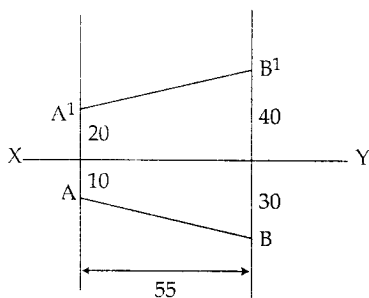
---

1. Answer the following questions in brief :   **7x2=14**

    (a) What is a Drafting machine ?

    (b) Draw the Drawing Symbol used for the following

        (i) Diameter   (ii) Square

    (c) Length of the scale (L) is calculated using the formula, $L = $ _____ $\times$ _____.

    (d) Match the Grades of pencils with its Hardness.

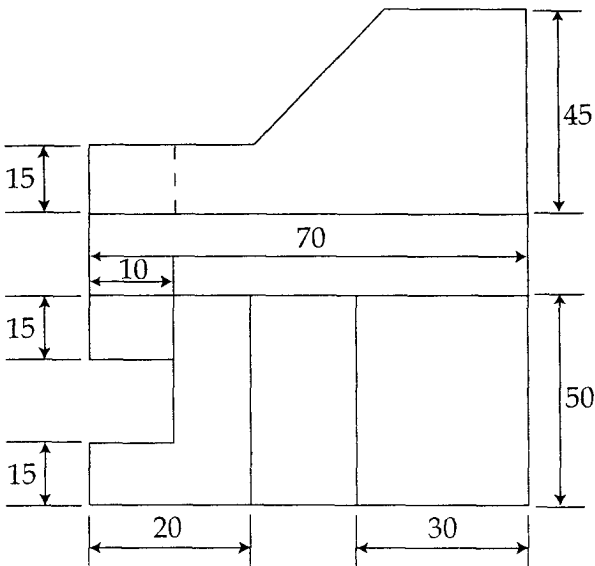 | Grade | Hardness |
    |-------|----------|
    | 3H | Medium |
    | HB | Very Hard |
    | H | Soft and Black |
    | 2B | Moderatly Hard |

(e) If a Drawing is prepared to a size smaller than the actual size of the object, they are said to have been drawn to a _____ scale.

(f) Write dimensions of any four standard size drawing sheets.

(g) Mention True or False.

    (i) In projections, the plan and Elevation are always be in vertical line. ( )

    (ii) Eccentricity of an Ellipse is always equal to one. ( )

2. (a) Draw the projections and Name the quadrants to which the following points belongs. **4**

    (i) Point 'P' is 35mm behind VP and 25mm above HP.

    (ii) Point 'Q' is 50 mm below HP and 15 mm behind VP.

(b) What is the difference between a prism and a pyramid ? Draw the figure with hexagonal base. **4**

(c) Figure below shows projection of a line AB. Find the True length of the line. **6**
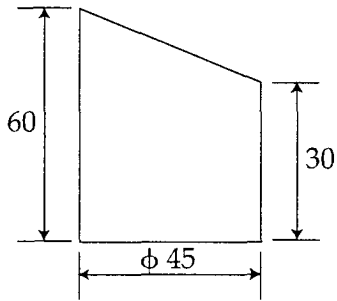
3. A Hexagonal pyramid of side of base 30 mm and **21** height 65mm resting on a base Edge, such that the base makes an angle of 45° to HP. Draw its projections.

4. Draw the isometric view for the views shown **21** below.

5. The Distance between Chennai and Bangalore is **21** 360 Km. It is represented on a railway map by 12 cm line. Construct a diagonal scale and show on the scale a distance of 572 kms.

6. Draw the development for the truncated cylinder **21** shown in figure.