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BET-016

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

Term-End Examination

00475

December, 2014

BET-016: ENGINEERING DRAWING

Time: 2 hours Maximum Marks: 70

Note: Part A is to be attempted on an answer script and Part B on a drawing sheet.

PART A

Question no. 1 is **compulsory**. Attempt any **five** questions from the remaining seven questions:

- 1. (a) What do you understand by R.F. (Representation Fraction)?
 - (b) Define "Regular Polygon". 2
 - (c) Define the situation of any object in 2nd
 Angle with respect to the Reference planes
 (H.P. and V.P.).
 - (d) Write the name of the curve, generated by a point on the circumference of a circle which rolls along a straight line.
 - (e) Differentiate between "PLANE" and "SOLID". 2

- 2. By a line diagram, indicate the "TYPES OF SOLIDS" which are commonly used in Engineering drawing.
- **3.** Explain with the help of sketches the progressive and chain type of dimensioning arrangements.
- 4. Find out the "TRUE LENGTH" of line 'ab' in the Figure 1.

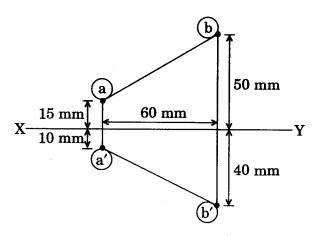


Figure 1

5. Calculated the DEVELOPED LENGTH of a cylindrical shape, having base dia. 49 mm.

6

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6

6.	Write down the various conditions of	
	any straight line with respect to the	
	reference planes i.e. H.P. and V.P.	6
7.	Construct an equilateral triangle when the	
	altitude is given as 60 mm.	6
8.	Define Isometric scale and explain how it is constructed.	6
	PART B	
Atte mar	mpt any two questions. Each question carries equ ks.	al
9.	Construct a parabola when the distance of focus from the directrix is 55 mm.	15
10.	A hexagonal plane of 35 mm side has one of its corners in H.P. Draw its projections when its surface makes an angle of 45° to H.P. and is perpendicular to V.P.	15
11.	base dia. 60 mm and its axis 80 mm long; it rests in H.P. on a point of its circumference. Its axis makes an angle of 45° with H.P. and parallel to	15
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12. As per Figure 2 Top View and Front View of a Block are given in 3rd-Angle-Projection. Draw its Isometric view. (All the dimensions are in mm).

15

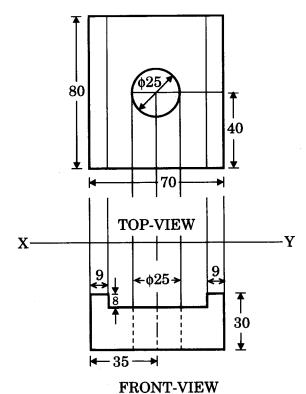


Figure 2