BET-016

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

Term-End Examination

00207

December, 2017

BET-016 : ENGINEERING DRAWING

	T	'ime	:	2	hours	
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Maximum Marks: 70

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

PART A

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

- 1. (a) What are the two systems of proportioning dimensions ?
 - (b) Calculate the length of scale when R.F. = $\frac{1}{50}$ and maximum reading to be read out is 6 metres.

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	(c)	Write down the names of any two types of conic sections.	
	(d)	Represent the convention of 1 st angle projection as per BIS standards.	
	(e)	Calculate the developed length of a regular pentagonal prism, having the base side 35 mm and axis 70 mm long. 5×25	=10
2.	Drav	w the projections of the following points :	10
	(a)	Point 'A' in H.P. and 50 mm in front of V.P.	
	(b)	Point 'B' 40 mm below H.P. and 40 mm in front of V.P.	
3.	Give line	e the names and sketches of various types of s to be used in engineering drawing.	10
4.	Wha Diff and	at is the use of an isometric scale ? erentiate between Orthographic projection Isometric projection.	10
5.	Exp Alig syst	lain with the help of simple sketches, med and Unidirectional dimensioning tems.	10
6.	Wha and calc	at is the relation between isometric length actual length ? How is isometric length ulated by using an isometric scale ?	10

PART B

Attempt any **two** questions. All questions carry equal marks.

- 7. Construct a Hyperbola when the distance of focus from the directrix is equal to 60 mm and eccentricity is 3/2.
- 8. Construct a diagonal scale of R.F. = $\frac{1}{6250}$ to read upto 1 kilometre. Show a length of 685 metres on it. 15
- **9.** A regular hexagon of 25 mm side has one of its corners in H.P. Its plane is inclined at 60° to H.P. and perpendicular to V.P. Draw its projections.
- 10. In the given figure, top view and front view of a cone are given. Draw its isometric view.



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