Total No. of printed pages = 6

END SEMESTER/RETEST EXAMINATION-2019

Semester: 1st

Subject Code: Me-101

ENGINEERING DRAWING

Full Marks - 100

Time - Four hours

The figures in the margin indicate full marks for the questions.

Instructions:

- 1. All questions of PART-A are compulsory.
- 2. Answer any five questions from PART-B.

PART - A

1.	Fill	in the blanks with appropriate words:
		1×10=10
	(a)	Circles and arcs of circles are drawn by means of a
	(b)	When the measurements are required in three units scales are used.

[Turn over

233				2.								
Ме	(c)	(b)	(a)	Wr	9	Ξ	E	(g)	\oplus	<u>@</u>	(b)	<u>ତ</u>
233/Me-101/ED (2)	Section Line	Leader	Centre Line	Write the description and general application of the following lines: $2\times5=10$	The diagonal of a quadrilateral is a line joining the	All the angles of an equilateral triangle are	When two plates are joined by overlapping one another, the joint is called	A line of 4m is shown by 40 mm on a scale. Its representative fraction is	Uses of T-square, set square, scale and protector are combined in the	T-square is used for drawinglines.	Isometric scale is used in projection.	The ratio of the length of the drawing of the object to the actual length of the object is called
						CEN	TP					
233/Me-101/ED (3) [Turn over	upto 800 meters.		(c) Construct a diagonal scale of RF=1/4000 to	(b) Draw a scale of 1:70 to show meters and decimeters and long enough to measure upto7 meter.	4. (a) What are two systems of placing dimensions on a drawing?	* Answer any five questions.	PART – B Marks –75	(c) What is comparative scale?	(b) Write four names of drawing instruments.	(a) Write two differences between 1st and 3rd angle projection.	3. Answer the following questions:	(d) Projection line(e) Cutting plane line.

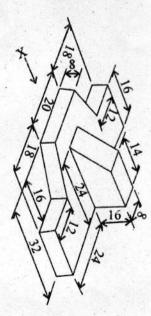
(a) Giving importance on the shape of letters,
 write the following in single stroke vertical style. Consider the height of letter 20 mm.

"I LOVE MY COUNTRY"

- (b) Write the two systems planning dimensions on a drawing.
- 6. (a) Construct a regular hexagon of side 50 mm.
- (b) Construct a rectangle of sides 70 mm and 50 mm long.
- (c) Draw a line AB and AC making angle 75%. * 6.50 Draw a circle of radius 25 mm touching them.
- 7. Draw the projections of the following points on the same ground line, keeping the projections.

 21/2×6=15
- (a) In the H.P and 30 mm behind the V.P
- (b) 35 mm above the H.P and 25 mm in front of the V.P
- (c) In the V.P and 50 mm above H.P

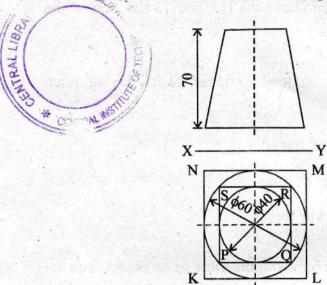
- (d) 20 mm below H.P and 20 mm behind the V.P
- (e) 25 mm above the H.P and 15 mm behind the V.P.
- Draw the following thread forms taking pitch 25 mm: 5×3=15
- (a) Square thread
- (b) Acme thread
- (c) Knuckle thread
- Draw the orthographic view of an object with 1st angle projection.
- (a) Front view
- (b) Top view
- (c) Both side views



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3

10. (a) Draw the isometric view of the frustum of the cone as shown in the figure: 6



(b) Draw the three view of a hexagonal nut for a 28 mm diameter bold, according to approximately standard dimensions.