



ME 111 Engineering Drawing

Mid-semester Examination

Maximum Marks: 35

Maximum Time: 40 minutes

16 September 2017

Instructions:

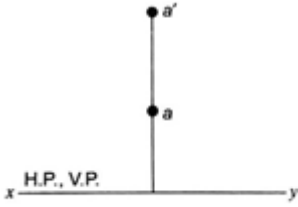
1. Fill-in your necessary information on Page 1 and sign. Also, sign on the attendance sheet.
2. This question paper contains 35 questions. Each question carries 1 mark. No negative marking.
3. Write your answers in the ANSWER BLOCK ONLY.
4. Write your roll no. on all pages.

Name of the student	
Roll No.	
Lab Group No. (e.g. L1, L2, L3-----)	
Lab Hall No. (1205/1206)	
Lab Instructor's name	
Students Signature	
Invigilators Signature	

Qs. No.	Question	Answer
1	The curve traced by a point on the circumference of a circle which is rolling on the interior of another circle is a _____.	Hypocycloid
2	If top view of a line is a point, its front view is (a) Parallel to xy line and of true length (b) Parallel to xy line and of apparent length (c) Perpendicular to xy line and of true length (d) Perpendicular to xy line and of apparent length	c
3	A numerical value expressed in appropriate units of measurement and indicated graphically on technical drawings with lines, symbols & notes is called as _____.	Dimension

A	For evaluation purpose only			
	✓	×	0	Total
No. of Questions				
Marks Obtained				

4	In _____ system, all dimensions are so placed that they can be read from the bottom edge of the drawing sheet.	Unidirectional
5	<p>Consider the following orthographic projections of a line</p> <p>Which of the above projections are not possible? (a) 1 & 2 (b) 1 & 4 (c) 2 & 4 (d) 1, 2 & 4</p>	c
6	<p>The FV of a point is 50 mm above the reference line and TV is 20mm below the FV. The point lies in</p> <p>(a) 4th quadrant (b) 3rd quadrant (c) 2nd quadrant (d) 1st quadrant</p>	c
7	<p>A 50 mm dia. thin circular plate is perpendicular to HP. Its front view is an ellipse with minor axis of 25 mm. The plate is inclined to VP at angle of _____ degrees.</p>	60
8	Centre line, lines of symmetry are described as _____.	Chain line or Long chain line
9	<p>A point lies in HP and its TV is above the reference line (x-y line). Its FV is</p> <p>(a) Above reference line (b) on reference line (c) Below reference line (d) any of the above</p>	b
10	<p>A right regular hexagonal prism is resting on HP on its base, its top view is a</p> <p>(a) Square (b) Rectangle (c) Hexagon (d) Pentagon</p>	c
11	<p>If generating and directing circle diameters are 60 mm and 240 mm, respectively then the angle subtended by the arc at directing circle's centre will be ____ degrees.</p>	90

12	 <p>For the given orthographic projections of a point, the quadrant in which it lies is: (a) 1st quadrant (b) 2nd quadrant (c) 3rd quadrant (d) 4th quadrant</p>	b
13	If the FV of a line is parallel to the XY, its true length is shown in (a) TV (b) FV (c) Side view (d) both FV & TV	a
14	Which of the following position is not possible for a right solid (e.g. pyramids, cylinders, prisms and cones)? (a) Axis perpendicular to HP and parallel to VP (b) Axis parallel to VP and perpendicular to HP (c) Axis parallel to both VP and HP (d) Axis perpendicular to both VP and HP	d
15	Multiplication of representative factor and maximum length to be measured is called as_____.	Length of scale
16	As per BIS (SP46:2003) code, the inclination of inclined letters drawn in engineering practice is_____degrees.	75
17	The top view is above the front view. The projection is a (a) First angle projection (b) Third angle projection (c) Second angle projection (d) Fourth angle projection	b
18	The line joining the front and top views of a point is called (a) Connector (b) reference line (c) projector (d) locus	c
19	Horizontal trace of a line exists when the line is (a) parallel to HP (b) Inclined to HP (c) Perpendicular to VP (d) Perpendicular to profile plane	b
20	A diagonal scale can read or measure up to _____ units. (a) 1 (b) 3 (c) 2 (d) None of the above	b
21	The front view of a rectangle, when its plane is parallel to HP and perpendicular to VP, is _____.	Line
22	If a line is inclined at 60° to HP and 45° to VP, its FV is inclined at an angle (a) 45° to XY (b) 60° to XY (c) between 45° and 60° to XY (d) Greater than 60° to XY	d
23	The following is formed by revolving rectangle about one of its sides which remains fixed (a) Cylinder (b) Sphere (c) Hemi sphere (d) Cone	a
24	When a line is parallel to VP and perpendicular to HP, its true length is obtained in (a) Front view (b) Side view (c) Top view (d) Both front view and side view	d
25	The top view of a right cylinder resting on HP on its base rim is (a) Ellipse (b) Circle (c) Rectangle (d) Square	b

26	The point at which the line intersects with the VP, extended if necessary is known as (a) Horizontal trace (b) Vertical trace (c) profile trace (d) auxiliary trace	b
27	The FV of a point is 40 mm above reference line and the TV is 50 mm below the reference line. Consider the following statements: 1) 40 mm below HP 2) 40 mm above HP 3) 50mm in front of VP 4) 50 mm behind VP. Of the above statements, true statements are (a) 1st & 3rd (b) 1st & 4th (c) 2nd & 4th (d) 2nd & 3rd	d
28	'Representative fraction' (RF) is defined as the ratio of (a) Length of an object in the drawing to actual length of the object (b) Length of an object in the drawing to isometric length of the object (c) Actual length of the object to length of an object in the drawing (d) Isometric length of the object to length of an object in the drawing	a
29	If the FV is above the reference line and TV is below the reference line, the point lies in (a) 4th quadrant (b) 3rd quadrant (c) 2nd quadrant (d) 1st quadrant	d
30	If a line is parallel to both HP and VP, its true length can be seen in: (a) FV (b) TV (c) side view (d) both FV & TV	d
31	A pentagonal pyramid is resting on its triangular face on HP with its axis parallel to VP. Which of the following sentences is correct? (a) FV shows TL of the axis (b) SV of the axis is perpendicular to XY (c) TV of axis is parallel to XY (d) All of the above	d
32	If the FV and TV of a line are inclined at 45° and 30° to the reference line XY, the true inclination of the line with HP will be (a) less than 45° (b) less than 30° (c) greater than 45° (d) equal to 45°	a
33	A point whose FV and TV are above reference line, is situated in (a) 4th quadrant (b) 3rd quadrant (c) 2nd quadrant (d) 1st quadrant	c
34	A point moves such that the ratio of its distance from a fixed point (focus) to its distance from a fixed line (directrix) is greater than 1. The locus of that point is _____.	Hyperbola
35	In the top view, if the apparent and true inclinations of a line are equal, the line is (a) Parallel to horizontal plane (b) Parallel to vertical plane (c) Parallel to profile plane (d) Inclined to both reference planes	a

Paper ends.



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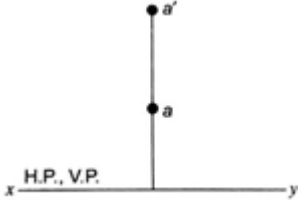
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