# **Multi choice Questions**

## 0. Introduction to Engineering Graphics

1	Which tool can be use	ed to draw a 90 degree a	ingle?					
	A) 30/60 triangle	B) Protractor	C) Drafting machine	D) All of the above				
2	Which set of lead grad	des has a grade out of se	equence?					
	A) H, HB, B, 3B	B) 7B, H, F, 3H	C) 6B, B, H, 4H	D) 9H, HB, B, 2B				
3	Which type of line is p	part of a dimension?						
	A) Break lines	B) Phantom lines	C) Extension lines	D) Cutting plane lines				
4	Which type of line is p	particular to section drav	vings?					
	A) Break lines	B) Phantom lines	C) Extension lines	D) Cutting plane lines				
5	Which angle cannot b	e made with either a 45	or 30/60 triangle or a co	mbination of the two?				
	A) 90	B) 70	C) 30	D) 15				
6	A drawing instrument	set usually contains all	of the following, except:					
	A) Bow compass	B) Scale	C) Dividers	D) Extra leads				
7	Which line type is thir	n and light?						
	A) Visible lines	B) Center lines	C) Construction lines	D) All of the above				
8	Which line type is thic	ck and black?						
	A) Visible lines	B) Center lines	C) Construction lines	D) All of the above				
9	Which type of line ha	s precedence over all ot	her types of lines?					
	A) A hidden line	B) A center line	C) A visible line	D) None of the above				
10	Which statement(s) is true about the precedence of lines?							
	A) A hidden line has	B) A center line has	C) A visible line has	D) All of the above				
	precedence over a	precedence over a	precedence over a					
	center line	visible line	miter line					
11	When you want to m	ake the letters of a line	of text narrower, you wo	uld set its:				
	A) Aspect	B) Scale	C) Alignment	D) Font				
12	When you want to m	ake sure that all of the t	ext stays to the right of a	given point on the				

	drawing, you wound se	et its:		
	A) Aspect	B) Scale	C) Alignment	D) Font
13		easurement for enginee	ring drawings and desigr	n in the mechanical
	industries is the  A) Millimeter	B) Centimeter	C) Meter	D) Kilometer
14	To draw the leader lin	e, which type of the follo	owing line is used?	
	A) Continuous thick	B) Long chain thin	C) Continuous thin	D) Continuous line
	line	line	wavy line	
15	A French curve is used	to draw		
	A) Circle	B) Ellipse	C) Smooth free form	D) Polygon
			curve	
16	A drafter helps in draw	ving		
	A) parallel and	B) concentric circles	C) Smooth curves	D) All of above
	perpendicular lines			
17	Which of the following	g pencil leads is hardest?		
	А) НВ	В) Н	C) B	D) F
18	To draw smooth curve	of any nature, draughti	ng instruments used is	
	A) Mini-drafter	B) French curve	C) Templates	D) Eraser shield
10	Davallal lines can be du			
19	Parallel lines can be dr	•	C) Dein of eat annual	D) All of the co
	A) Mini-drafter	B) T-square	C) Pair of set squares	D) All of these
20	"A" series of paper has	s length to width ratio of	approximately	
	A) 3:2	B) √3:1	C) √2:1	D) 5:3

1	D	4	D	7	С	10	Α
2	В	5	В	8	Α	11	A
3	С	6	D	9	С	12	С
13	Α	14		15	С		

### 1. ENGINEERING SCALE

1	Which one of the follow	wing is not a reduction s	cale?	
	A) 1:1	B) 1:200	C) 5/320	D) 5:6
2	For drawing of small in	struments, watches etc.	the scale used is	
	A) Reduced scale	B) Full scale	C) Enlarged scale	D) None of these
3	When the drawing are	drawn smaller than the	actual size of object the	n scale is known as
	A) Reduced scale	B) Enlarged scale	C) Full scale	D) None of these
4	If the 10m length is rep	oresented as 1 mm on th	e map then representat	ive fraction is
	A) 1/100	B) 1/1000	C) 1/10	D) None of these
5	The R.F. of scale is alwa	ays		
	A) Less than 1	B) Equal to 1	C) Greater than 1	D) Any of these
6	The unit of R.F. is			
	A) Cubic centimeter	B) Square centimeter	C) Centimeter	D) None of these
7	The full form of R.F. is			
	A) Reducing fraction	B) Representative fraction	C) Reduction factor	D) Representative factor
		Haction		ractor
8	A map of 10 cm X 8 cm	represents an area of 5	0000sq. meter of a field.	The R.F. of the scale is
	A) 1/25	B) 1/625	C) 1/2500	D) 1/6250000
9	An area of 36 square ki	ilometer is represented	by 144 square centimete	er on a map. What is
	A) 1/4	B) 1/2	C) 1/5000	D) 1/50000
10	When measurements a	are required in three con	secutive units, the appr	opriated scale is
	A) Plain scale	B) Diagonal scale	C) Isometric scale	D) Scale of cords
11	In the diagonal scale, the measurement of	he word "diagonal" is us	ed because it is most sui	table for the
	A) Diameter of a	B) Diagonal of a	C) Side of a pentagon	D) All of these

circle square

12 For scale, which one is not correct

(a) 1:2

(b) 1:20

(c) 1:1/2

(d) 1/2

1	Α	2	Α	3	A	4	D
5	D	6	D	7	В	8	С
9	D	10	В	11	D	12	D

### 2. Engineering Curve

1	wnat type of curve	is created by the interse	ection of a plane parallel	to the side of cone?					
	A) parabola	B) hyperbola	C) ellipse	D) roulette					
2	What type of curve	is created by the interse	ection of a plane with a c	cone which makes an					
	angle with the axis greater than the angle between the side of the cone and the axis?								
	A) parabola	B) hyperbola	C) ellipse	D) roulette					
3	A(n) is cre	eated by the motion of a	a point on a circle as the	circle rolled along a					
	straight line.								
	A) epicycloid	B) hyperbola	C) cycloid	D) spiral					
4	A circle will appear	on an isometric drawing	g as a(n)						
	A) ellipse	B) cycloid	C) circle	D) parabola					
5	The curve generate	d by a point on the circu	ımference of a circle, wh	nich rolls without slipping					
	along outside of an	along outside of another circle is known as							
	A) Hypocycloid	B) Epicycloid	C) Cycloid	D) Trochoid					
6	In the game of crick	In the game of cricket, a ball is thrown from the boundary and reaches the gloves of the							
	wicket keeper, the	curve traced out will be							
	A) Hyperbola	B) Involute	C) Parabola	D) Cycloid					
7	A curved traced out	by a point which move	s uniformly both about t	he centre and at the same					
	time away or towar	ds the centre is known a	as						
	A) Involute	B) Archemedian	C) Cycloid	D) None of above					
		spiral							
8	The eccentricity of	The eccentricity of which of the following curve is greater than one?							
	A) Ellipse	B) Parabola	C) Hyperbola	D) None of above					
9	If the generating po	int is on the generating	circle and the generating	g circle is outside the					
	directing circle, the	curve obtained is:							
	(a) Inferior	(b) epicycloids	(c) hypocycloid	(d) superior trochoid					
	hypotrochoid								

10 When the plane cuts the cone parallel to the generator, the curve traced out is

(a) ellipse

- (b) parabola
- (c) hyperbola
- (d) triangle

1	A	2	В	3	С	4	Α
5	В	6	С	7	В	8	С
9		10					

### 3. Projections of Point & LINE

1	call							
	A) Horizontal Trace	B) Vertical Trace	C) Profile Trace	D) Trace				
2	The Intersection of a	plane surface with the	Vertical plane is aline a	nd is call				
	A) Horizontal Trace	B) Vertical Trace	C) Profile Trace	D) Trace				
3	The intersection of a	plane surface with the p	orofile plane is line and	is call				
	A) Horizontal Trace	B) Vertical Trace	C) Profile Trace	D) Trace				
4	If a line is inclined to	H.P., its plan will	·					
	A) be perpendicular	B) be parallel to XY	C) show the true	D) None of the above				
	to XY line	line	length					
5	numbe	er Traces Produced if Red	quired Will Meet On xy	Line.				
	A) 1	B) 2	C) 3	D) 4				
6	Straight Line of projection Will Make an angle with xy Line to the angle of plane with other							
	principal plane.							
	A) Perpendicular	B) Equal	C) Right angle	D) Zero				
7	When a point is abov	e H.P. and behind V.P., t	he point is resting in w	hich quadrant?				
	A) 1st	B) 2nd	C) 3rd	D) 4th				
8	When a point is abov	e H.P. and in front of V.F	P., the point is resting in	n which quadrant?				
	A) 1st	B) 2nd	C) 3rd	D) 4th				
9	When a point is below	w H.P. and in front of V.F	P., the point is resting in	n which quadrant?				
	A) 1st	B) 2nd	C) 3rd	D) 4th				
10	When a point is below	w H.P. and behind V.P., t	he point is resting in w	hich quadrant?				
	A) 1st	B) 2nd	C) 3rd	D) 4th				
11	If a line is parallel to I	H.P., its front will be	to XY line.					
	A) Perpendicular	B) Parallel	C) Inclined	D) None of the above				

12	If a line is parallel to V.	P., its top view will be _	to XY line.				
	A) Perpendicular	B) Parallel	C) Inclined	D) None of the above			
13	If a line is inclined to V	.P., its elevation will					
	A) be perpendicular	B) be parallel to XY	C) show the true	D) None of the above			
	to XY line	line	length				
14	If a line is inclined to the	ne Vertical Plane and par	rallel to Horizontal Plane	, then which of the			
	following statements is always CORRECT?						
	A) True Length = Plan	B) True Length ≠ Plan	C) True Length >	D) True Length =			
	Length	Length	Elevation Length	Elevation Length			
15	When a line is inclined	to VP and parallel to HP	, the front view will be _	to xy.			
	A) parallel	B) perpendicular	C) inclined at angle $\boldsymbol{\varphi}$	D) non on these			
16	When the front view of line having a length less than the original length then which of the						
	following is correct?						
	A) Line is inclined to	B) Line is inclined to	C) Line is inclined to	D) (B) and (C) both			
	H.P.	both H.P. and V.P.	V.P.				

1	Α	2	В	3	С	4	В
5	В	6	В	7	В	8	A
9	D	10	С	11	В	12	В
13	В	14	Α	15	Α	16	D

## 4. Projections of Plane

When a plane is para			
A) T.V.	B) S.V.	C) B.V.	D) F.V
A Plane surface has			
Dime	nsion.		
A) 0	B) 1	C) 2	D) 3
Three Dimensional D	rawing of the plane in th	e given position, We ca	an visualize that
Elevation will be	of the same size.		
A) Plane	B) Circular Plane	C) straight line	D) None of this
Plane is perpendicula	r to one of the principal	planes the projection of	on that plane will
be	-		
A) Line	B) Straight line	C) Curve	D) Perpendicular line
sha	pe.		
sha		C) Line	D) TRUE
A) Inclination		·	D) TRUE
A) Inclination  Trace on other Princi	B) Plane	·	D) TRUE
A) Inclination  Trace on other Princi Line.	B) Plane	Line to xy	
A) Inclination  Trace on other Princi Line.	B) Plane pal Plane will be	Line to xy	
A) Inclination  Trace on other Princi Line.  A) Perpendicular line	B) Plane pal Plane will be	Line to xy  C) Perpendicular  Plane	D) a,b both
A) Inclination  Trace on other Princi Line.  A) Perpendicular line	B) Plane  pal Plane will be  B) Projection of line	Line to xy  C) Perpendicular  Plane	D) a,b both
A) Inclination  Trace on other Princi Line.  A) Perpendicular line  When a plane is para A) T.V.	B) Plane  pal Plane will be  B) Projection of line  llel to V.P and perpendic	Line to xy  C) Perpendicular  Plane  cular to H.P and P.P alw  C) B.V.	D) a,b both vaysfirst D) F.V
A) Inclination  Trace on other Princi Line.  A) Perpendicular line  When a plane is para A) T.V.	B) Plane  pal Plane will be  B) Projection of line  llel to V.P and perpendic  B) S.V.	Line to xy  C) Perpendicular  Plane  cular to H.P and P.P alw  C) B.V.	D) a,b both vaysfirst D) F.V
A) Inclination  Trace on other Princi Line. A) Perpendicular line  When a plane is para A) T.V.  A viewing direction w view.	B) Plane  pal Plane will be  B) Projection of line  llel to V.P and perpendic  B) S.V.	Line to xy  C) Perpendicular  Plane  cular to H.P and P.P alw  C) B.V.	D) a,b both vaysfirst D) F.V
A) Inclination  Trace on other Princi Line. A) Perpendicular line  When a plane is para A) T.V.  A viewing direction w view. A) inclined	B) Plane  pal Plane will be  B) Projection of line  llel to V.P and perpendic  B) S.V.  which is perpendicular to	Line to xy  C) Perpendicular  Plane  cular to H.P and P.P alw  C) B.V.  the surface in question  C) oblique	D) a,b both vaysfirst D) F.V n gives a(n)

		in the view.		
	A) foreshortened	B) in true size and shape	C) as a line	D) as a point
11	Depending on its rela	ationship to the projecti	on plane on which the	view is projected, a line
	may project:			
	A) true length	B) foreshortened	C) as a point	D) all of the above
12	If a surface on an obj	ect is parallel to one of	the principal planes of	projection, then the
	angular relationship o	of that surface to at leas	t two other principal p	rojection planes is:
	A) parallel	B) perpendicular	C) inclined	D) unknown
13	Straight Line of project principal plane.	ction Will Make an angle	e with xy Line to the an	gle of plane with other
	A) Perpendicular	B) Equal	C) Right angle	D) Zero
14	The Intersection of a	plane surface with the h	norizontal plane is a line	e and is
	A) Horizontal Trace	B) Vertical Trace	C) Profile Trace	D) Trace
15	The Intersection of a	plane surface with the \	/ertical plane is a line a	nd is call
	A) Horizontal Trace	B) Vertical Trace	C) Profile Trace	D) Trace
16	The intersection of a	plane surface with the p	profile plane is line and	is call
	A) Horizontal Trace	B) Vertical Trace	C) Profile Trace	D) Trace
17	When a plane is paral	lel to H.P and perpendi	cular to V.P and P.P alw	vaysfirst
	A) T.V.	B) S.V.	C) B.V.	D) F.V.
18	When a plane is paral	lel to V.P and perpendi	cular to H.P and P.P alw	vaysfrist
	A) T.V.	B) S.V.	C) B.V.	D) F.V.
19	A square plate of neg	ligible thickness is inclin	ed to HP. The front vie	w will appear as
	A) Rhombus	B) Square	C) Line	D) Rectangle
20	If the object lies in the	e second quadrant, its p	osition with respect to	reference plane will be

(a) In front of V.P. (b) Behind V.P. and (c) In front of V.P. (d) Behind V.P. and

and above H.P. below H.P. and below H.P. above H.P.

1	Α	2	С	3	Α	4	В
5	D	6	A	7	В	8	В
9	С	10	Α	11	D	12	В
13	В	14	Α	15	В	16	С
17	Α	18	D	19	Α		

## 5. Projections & Sections of Solid

1	This type of solid has two bases that are parallel equal polygons:						
	A) pyramid	B) prism	C) cone	D) torus			
2	The solid having a po	olygon for a base and tria	ngular lateral faces inte	rsecting at a vertex is			
	A) pyramid	B) prism	C) cone	D) torus			
3	Among the following	solids, a regular polyhe	dron is				
	A) square prism	B) square pyramid	C) cube	D) sphere			
4	A solid having minim	um number of faces is					
	A) tetrahedron	B) triangular prism	C) square pyramid	D) cube			
5	The number of face i	n a dodecahedron are					
	A) 4	B) 8	C) 12	D) 20			
6	The number of stage	s that are necessary to g	et the orthographic viev	vs of a solid having its			
	axis inclined to both r	reference planes is					
	A) 1	B) 2	C) 3	D) 4			
7		ng on its face on the H.P	. with a side perpendicu	lar to the V.P. Its front			
	view will be						
	A) equilateral triangle	B) isosceles triangle	C) scalene triangle	D) right-angle triangle			
8		resting on a face in the V	.P. The number of dotte	d lines which will			
	appear in the front vi						
	A) 1	B) 2	C) 3	D) 4			
9	The solid, which will have two dotted lines in the top view when it is resting on its face in the						
	H.P. is						
	A) square pyramid	B) pentagonal	C) hexagonal	D) all of these			
		pyramid	pyramid				
10	A cube is resting on t	the H.P. with a solid diag	onal perpendicular to it.	The top view will			
	appear as						

	A) square	B) rectangle	C) irregular hexagon	D) regular hexagon				
11	A right-circular cone resting on a point of its base circle in the H.P. has the axis inclined at 30°							
	to the H.P. and 45º to	the V.P. The angle betwe	een the reference line an	nd top view of the axis				
	will be							
	A) 30º	B) between 30º and	C) 45º	D) more than 45º				
		45º						
12	A right-circular cone r	esting on a generator in	the H.P. has the axis incl	ined at 30º to the H.P.				
	and 45º to the V.P. Th	ne angle between the ref	erence line and top view	of the axis will be				
	A) less than 45º	B) 45º	C) more than 45º	D) any of these				
13	A cylinder rests on a p	point of its base circle in t	the H.P., having the axis	inclined at 30º to the				
	H.P. and 60º to the V.I	P. The inclination of the t	op view of the axis with	the reference line will				
	be							
	A) 30º	B) 60º	C) 90º	D) none of these				
14	A cutting plane cut the cone such a way that true shape of cutting portion is seen as triangle							
	when cutting plane is cut the base and passed through							
	A) midpoint of axis	B) apex of cone	C) generator of cone	D) any point on axis				
15	Another name for a c	ube is a						
	A) hexahedron	B) tetrahedron	C) isocohedron	D) octahedron				
16	Another name for a to	etrahedron is a						
	A) triangular prism	B) square prism	C) triangular pyramid	D) square pyramid				
17	A(n) cone has two planar surfaces parallel to each other.							
	A) truncated	B) frustum	C) right	D) oblique				
18	The solid having a polygon for a base and triangular lateral faces intersecting at a vertex is							
	A) pyramid	B) prism	C) cone	D) torus				
19	Name the solid formed	Name the solid formed by four equilateral triangle						
	A) Square pyramid	B) Triangular pyramid	C) Tetrahedron	D) Square prism				
20	A cylinder standing on	the HP is cut by a vertica	al plane parallel to the ax	kis and away from it.				

	The shape of the section	on will be		
	A) Rectangle	B) Circle	C) Ellipse	D) Hyperbola
21	When the axis of the se	olid is parallel to both HF	P and VP the view which	reveals the true shape
	of the base is			
	A) Front view	B) Top view	C) Side view	D) None of these
22	Name the solid formed	by revolving right angle	triangle with one of its	perpendicular side
	fixed			
	A) Cone	B) Cylinder	C) Tetrahedron	D) Octahedron
23	When the cone, resting	g on base on V.P., is cut l	by section plane parallel	to V.P. then the true
		nd can be seen in		
	A) Circle, Front	B) Ellipse, Front	C) Ellipse, Top	D) Circle, Top
24	To obtain the true shap	pe of the section of solid	, an auxiliary plane is set	
	A) Inclined at an	B) parallel to XY	C) Parallel to a	D) perpendicular to a
	angle of 45 to a		cutting plane	cutting plane
	cutting plane			

1	В	2	Α	3	С	4	Α
5	С	6	С	7	В	8	В
9	D	10	D	11	D	12	С
13	С	14	В	15	С	16	С
17	Α	18	Α	19	С	20	Α
21	С	22	A	23	A	24	С

## 6. Orthographic Projections

1	What types of sketch are typically used in the refinement stage of the design process?							
	A) isometric	B) document	C) oblique	D) ideation				
2	What type of sketch in	ncorporates						
	convergence?							
	A) isometric	B) perspective	C) oblique	D) multi view				
3	What type of sketch s	hows the front in true sl	nape?					
	A) isometric	B) perspective	C) oblique	D) axonometric				
4	What is the major diff	erence(s) between pers	pective and parallel proj	ection?				
	A) Parallel projection	B) perspective	C) parallel projection	D) perspective				
	can only be used	projection gives a	is equivalent to a	projection can only				
	with objects	more realistic	perspective	be used for creating				
	containing parallel	representation of an	projection where the	oblique and not				
	edges.	object	viewer is standing	isometric pictorials				
			infinitely far away					
5	What type of sketch uses a miter line?							
	A) a two-view	B) an isometric	C) a three-point	D) a three-view multi				
	multiview	pictorial	perspective pictorial	view				
6	Where do the project	ion lines converge in a p	erspective sketch?					
	A) the vanishing	B) the ground line	C) the horizon line	D) the eye point				
	point							
7	The selection of the fr	ont view in executing a	multi view drawing of ar	n object is dependent				
	upon the following fac	tors:						
	A) Size and shape of	B) The number of	C) The greatest	D) the size of the				
	the object and their	principal views	contour shape, the	object, size of the				
	relationship to all	required and the	related dashed lines,	paper, position of				
	views.	related auxiliary	and the position of	use, and least				
		views needed to	use.	number of hidden				
		describe the object.		lines				

8	All of the following statements about multi view drawings are true, except:							
	A) each view is a 3-D	B) based on	C) at least two views	D) views are defined				
	pictorial image	orthographic	of the object	by planes of				
		projection		projection				
9	Which type of project	ion does not have the pr	ojection rays parallel to	each other?				
	A) axonometric	B) oblique projection	C) orthographic	D) perspective				
	projection		projection	projection				
10	Which is not a princip	al view?						
	A) bottom	B) left side	C) auxiliary	D) front				
11	Principle planes will a	ppear as:						
	A) normal planes or	B) oblique planes or	C) normal planes or	D) skewed planes or				
	edges	edges	oblique planes	edges				
12	In orthographic projection, visual rays or lines of sight for a given view are to each other.							
	A) perpendicular	B) oblique	C) normal	D) parallel				
13	What two types of projections give a pictorial view of the object without convergence?							
	A) orthographic and	B) oblique and	C) perspective and	D) isometric and				
	perspective	axonometric	oblique	orthographic				
14	Inclined planes in a three-view drawing will appear as:							
	A) two surfaces and	B) two edges and one	C) three edges	D) foreshortened in				
	one edge	surface		each view				
15	Oblique planes in a th	ree-view drawing will ap	pear as:					
	A) two surfaces and	B) two edges and one	C) three edges	D) three surfaces				
	one edge	surface						
16	Normal planes in a th	ree-view drawing will ap	pear as:					
	A) one surface and	B) three surfaces	C) one edge and two	D) three edges				
	two edges		surfaces					

17	What are the three principle planes in orthographic projection?								
	A) front, top, profile	B) back, top, profile	C) top, front, right side	D) frontal, horizontal, profile					
18	The top view of an ob	The top view of an object should typically be drawn:							
	A) to the right of the	B) anywhere on the	C) directly above the	D) on a separate					
	front view.	same page.	front view.	piece of paper.					
19	A horizontal surface o	of a multi view drawing v	will appear as a(n)	in the front					
	view.								
	A) edge	B) normal surface	C) point	D) foreshortened surface					
20	Which view is usually	developed first, contain	ns the least amount of hi	dden lines, and shows					
	the most contours in multi view drawings?								
	A) right side	B) top	C) back	D) front					
21	A sphere can be described in how many								
	views?								
	A) 4	B) 3	C) 2	D) 1					
22	An asymmetric object	t is usually described by	how many views?						
	A) 6	B) 3	C) 4	D) 2					
23	An axially symmetric object, such as one turned on a lathe, normally can be shown in view(s).								
	A) one	B) two	C) three	D) four					
24	In orthographic proje	ction, visual rays are	to the projecti	on plane.					
	A) parallel	B) adjacent	C) perpendicular	D) tangent					
25	The top and right side	e views have what comn	non dimension(s)?						
	A) height and width	B) width and depth	C) height	D) depth					
26	For orthographic proj	ection, the engineering	custom in the United Sta	ates dictates the use of:					
	A) first-angle	B) second-angle	C) third-angle	D) fourth-angle					

	projection	projection	projection	projection			
27	For orthographic proje	ction, the engineering c	ustom in Europe dictate	s the use of:			
	A) first-angle	B) second-angle	C) third-angle	D) fourth-angle			
	projection	projection	projection	projection			
28	The sequence for the o	direction of view (or line	of sight) for any orthogr	aphic projection as			
	utilized in the United S	tates is:					
	A) eye of	B) eye of	C) projection	D) projection			
	observer>projection	observer>object>proj	plane>object>eye of	plane>eye of			
	plane>object	ection plane	observer	observer>object			
29	Good practice dictates view?	that the characteristic o	contour shape of the obj	ect be shown in what			
	A) top	B) front	C) right side	D) any side			
30	The height, width, and depth of an object can be shown with a minimum of how many orthographic projection views?						
	A) six	B) three	C) two	D) four			
31	Which of the following pairs of orthographic views both show the height dimension?						
	A) left side and front	B) top and front	C) top and rear	D) bottom and right side			
32	In the first angle projec	tion method, the view s	een from left is placed o	n			
	A) Above Front View	B) Right of Front View	C) Above Top View	D) Above Top View			
33	Second angle projectio	n is not used because					
	A) Plan is above xy	B) both views overlap	C) elevation is above	D) views are small in			
		each other	ху	size			
34	If the object lies in third	d quadrant, its position v	with respect to reference	e planes will be			
	A) In front of VP,	B) Behind VP, above	C) Behind VP, below	D) In front of VP,			
	above HP	НР	НР	below HP			

35 If the object lies in the second quadrant, its position with respect to reference				
	A) In front of V.P. and	B) Behind V.P. and	C) In front of V.P. and	D) Behind V.P. and
	above H.P	below H.P.	below H.P.	above H.P.
36	In a third angle project	ion method, right hand s	side view of an object is	drawn
	front view.			
	A) Left side of	B) Right side of	C) Rear side of	D) None of above
37				
	A) Front view is	B) Top view is above	C) Front view and top	D) Front view and
	above reference line	reference line and	view both overlap on	top view both

38 For the third angle projection method, Which of the following is correct?

front view is below

reference line

A) Observer - Object

below reference line

and top view is

- B) Observer Plane C) (A) and (B) both

each other and

below reference line

D) None of above

overlap on each

reference line

other and above the

- Plane
- Object
- 39 In orthographic view the lines Perpendicular to arrow X are drawn as
  - (1) Parallel to XY in Plan (2) Parallel to XY in elevation (3) Perpendicular to XY in Elevation
  - (a) 1
- (b) 2
- (c) 3
- (d) 1&2

1	В	2	В	3	С	4	B, C
5	D	6	Α	7	D	8	Α
9	D	10	С	11	Α	12	D
13	В	14	Α	15	В	16	Α
17	D	18	С	19	Α	20	D
21	D	22	В	23	В	24	С
25	D	26	С	27	Α	28	Α
29	В	30	С	31	Α	32	В
33	В	34	С	35	D	36	Α
37	С	38	В	39			

### 7. Isometric Projections

1	easiest to understand?						
	A) axonometric	B) three-view	C) one-view	D) bimetric			
		orthographic	orthographic				
2	Which of the followin	ng is not a pictorial drawi	ng?				
	A) isometric	B) multi view	C) perspective	D) axonometric			
3	Which of the following projection plane?	ng projection methods do	oes not use projectors pe	erpendicular to the			
	A) isometric	B) orthographic	C) oblique	D) axonometric			
4	A circle will appear or	n an isometric drawing a	s a(n)				
	A) ellipse	B) cycloid	C) circle	D) parabola			
5	An axonometric draw	ring which has two axes	divided by equal angles				
	A) diametric	B) trimetric	C) orthographic	D) isometric			
6	An axonometric draw	ring which has all three a	xes divided by equal				
	A) diametric	B) trimetric	C) orthographic	D) isometric			
7	In a trimetric drawing, the relationship of the angle between axes to each other is:						
	A) three are equal	B) two are equal	C) three are unequal	D) none of the above			
8	In an isometric sketch	n of a cube:					
	A) the frontal face	B) the receding axes	C) all faces are	D) only the depth			
	appears in its true	are at 45 degrees to	equally distorted	distances must be			
	shape	the horizontal		reduced			
9	In isometric drawings	::					
	A) Two axes are	B) True	C) All faces are	D) None of the above			
	perpendicular	measurements can	unequally distorted				
		be made only along					

or parallel to the isometric axes

10	In an axonometric drawing, the projection rays are drawn to each other and to the plane of projection.					
		B) obliqueparallel	C) Parallel perpendicular	D) parallelparallel		
11	One method of drawing an ellipse that represents an isometric pictorial circle is known as:					
	A) the box	B) the coordinate	C) the four-center	D) the offset		
	construction method	construction method	approximation method	construction method		
12	Non-isometric lines are located and sketched how?					
	A) They are drawn	B) They are	C) They are	D) They are located		
	parallel to the	measured using the	measured using a	by determining the		
	isometric axis.	angle from the multi	non-isometric	endpoints of the		
		view.	template.	non-isometric line.		
13	In an oblique sketch of a cube:					
	A) the frontal face	B) both receding axes	C) all faces are	D) the depth		
	appears in its true	are at 30 degrees to	equally distorted	distances must be		
	shape	the horizontal		reduced		
14	In an oblique drawing, all of the following angles are commonly used for drawing the depth					
	axis, except:					
	A) 30°	B) 45°	C) 60°	D) 90°		
15	In an oblique drawing, the projection rays are drawn to each other and					
	to the plane of projection.					
	A) obliqueoblique	B) obliqueparallel	C) paralleloblique	D) parallelparallel		
16	A circle will appear on an isometric drawing as a(n)					
	A) ellipse	B) cycloid	C) circle	D) parabola		
17	In isometric projection the three edges of an object are inclined to each other at					
	A) 60	B) 120	C) 30	D) 90		

18	A square lamina in isometric projection appears as					
	A) Rhombus	B) Rectangle	C) Trapezium	D) Parallelogram		
19	In an isometric drawing, lines that are not parallel to the isometric axes are called					
	A) dimetric lines	B) trimetric lines	C) non-isometric	D) multi view lines		
20	The projection showing the front in the true shape and size is					
	A) isometric	B) perspective	C) oblique	D) axonometric		
21	Inclined planes in a three-view drawing will appear as					
	A) two surfaces and	B) one surface and	C) three edges	D) foreshortened in		
	one edge	two edges		each view		
22	This type of projection is when projectors are parallel to each other, but are at an angle other than 90 degrees to the plane of projection:					
	A) perspective	B) oblique	C) aesthetic	D) angular		
23	While drawing the isometric view of the sphere, its diameter is taken as					
	A) Equal to actual	B) 11/9 times of the	C) 21/9 times of the	D) none of the above		
	diameter	actual diameter	actual diameter			
24	Two lines inclined at 90° in the orthographic view appear in isometric view to be inclined at					
	A) 60 °	B) 90 °	C) 120 °	D) 180 °		
25	Length of a line 'L' in isometric drawing or view will be					
	A) 0.707 L	B) ) 0.815 L	C) 0.866 L	D) equal to length L		
26	If D is the diameter of sphere, its value in isometric projection will be equal to					
	A) $\sqrt{3/2}  D$	B) $\sqrt{2/3} D$	C) D	D) None of these		
27	In isometric projection/drawing the ellipse is normally drawn by which method					
	A) Arc of circle	B) Concentric circle	C) Four centre	D) Oblong method		
	method	method	method			
28	The isometric view of	a vertical line is represe	nted at an angle of	in front view and		

	having a length the original length of line.					
	A) 30 $^{\circ}$ , Same as	B) 30°, Less than	C) 90 °, Same as	D) 90 °, Less than		
29	The isometric projection of 90 mm line is mm.					
	A) 30*(6) (1/2)	B) 30*(3) (1/2)	C) 30*(2) (1/2)	D) None of above		
30	While drawing the isometric view of the sphere, its diameter is taken as					
	(a) Equal to actual	(b) 11/9 times of the	(c) 21/9 times of the	(d) none of the		
	diameter	actual diameter	actual diameter	`above		
31	The isometric view of a	a vertical line is represer	ted at an angle of	in front view and		
	having a length the original length of line.					
	(a) 30o, Same as	(b) 90o, Same as	(c) 30o, Less than	(d) 90o, Less than		

1	Α	2	В	3	С	4	Α
5	Α	6	D	7	D	8	С
9	В	10	С	11	Α	12	D
13	Α	14	D	15	С	16	Α
17	В	18	D	19	С	20	С
21	D	22	D	23		24	
25		26		27		28	
29		30	Α				