COMPUTER AIDED DESIGN (CAD)

18-1 INTRODUCTION

The drafting work can be automated and accelerated through the use of Computer Aided Design (CAD) systems. It may be applied for a wide variety of products in the field of automotive, electronics, aerospace, naval, architecture, civil and other disciplines of engineering. CAD systems were originally used for automated drafting only, but now they also include three-dimensional modeling and computer-simulated operations of the models. Sometimes CAD is translated as "computer-assisted drafting", "computer-aided drafting", or a similar phrase. Related acronyms are CADD, which stands for "computer-aided design and drafting"; CAID, for Computer-aided Industrial Design; and CAAD, for "computer-aided architectural design". All these terms are essentially synonymous, but there are some subtle differences in meaning and application.

MULTIPLE CHOICE QUESTIONS

Choose the most appropriate answer out of the given alternatives:

i)	What should you pay attention to when learning AutoCAD?					
	(a) The Command Line(c) The Title Bar		(b) The Status Bar(d) Floating toolbars			
ii)	What does WCS stand for?					
	(a) Western CAD System(c) World Coordinate System		` '	(b) Worldwide Coordinate Sectors(d) Wrong CAD Setting		
iii)	Status bar do not contain					
	(a) Snap	(b) Grid	(c) Era	ise	(d) Polar	
iv)	Coordinates for the current position of crosshair of the cursor is seen in					
	(a) Menu bar	(b) Standard to	olbar (c) Pro	perties toolba	r(d) Status bar	
v)	Units command of AutoCAD is not used to set					
	(a) Units for linear measurement(c) Limits of drawing		(b) Units for angular measurement (d) Direction in which angle is to be measured			
vi)	Polar coordinates are used mostly for drawing					
	(a) Circles	(b) Arcs	(c) Vei	rtical lines	(d) Angled lines	

vii)	The number of points needed to draw a line using Absolute Coordinates is					
	(a) None	(b) One	(c) Two	(d) Four		
viii)	If a line is drawn between points 1,5 and -3,5 its absolute length is					
	(a) Three unit	(b) Four units	(c) Five units	(d) Insufficient data		
ix)	How long will line from 1,5 to @5<10 be?					
	(a) One unit	(b) Four units	(c) Five units	(d) Ten units		
x)	To move someth displacement?	ning Six units to the	e right, what would	be the 2nd point of		
	(a) @6,0	(b) @6<0	(c) Both 1 and 2	(d) Neither 1 nor 2		
xi)	Which one is not a valid option of Units command?					
	(a) Architectural	(b) Decimal	(c) Meter	(d) Metric		
xii)	Snap command increments along	is used to regulate	the cursor moven	nent to the specified		
	(a) Vertical axis(c) Cartesian coordinates		(b) Horizontal axis(d) Polar angles			
xiii)	What can be contained in a template drawing?					
	(a) Sheet layout	(b) Dimension styles	s (c) Text styles	(d) All of these		
xiv)	How many points	do you need to defin	e for the Rectangle c	ommand?		
	(a) One	(b) Two	(c) Three	(d) Four		
xv)	Which one of the following in not a valid option for drawing a circle?					
	(a) 3 Points	(b) Tan Tan Center	(c) Tan Tan Radius	(d) Tan Tan Tan		
xvi)	2-points option is used to draw circles by specifying the					
	` '		(b) Two end points of a radius(d) Center and two end points of a chord			
xvii)	Xline command is used to draw line that					
	(a) Extends up to a specified point(b) Extends up to another line(c) Extends infinity in one direction only (d) Extends infinity in both directions					
xviii)	Offset command can be used for drawing					
	(a) Infinite long lines(c) Intersecting lines		(b) Parallel lines(d) Perpendicular bisectors			
xix)	Objects are rotated around the					
	(a) Base point(c) Centre of the object		(b) Bottom right of the object(d) Origin			
xx)	Join command is executed by clicking the icon					
	(a)	(b) →←		(d)/		

xxi)	Scaling objects makes them					
	(a) Bigger (c) It only stretches them		(b) Smaller(d) Both Bigger and Smaller			
xxii)	When using the TRIM command, which do you select first?					
	(a) The cutting edges(c) Everything		(b) The object to be trimmed(d) Nothing			
xxiii)	xiii) The term used by most CAD systems for "rounding corners" is					
	(a) Chamfer	(b) Curve	(c) Fillet	(d) Smooth		
xxiv)	The fillet command creates					
	(a) Sharp corners	(b) Round corners	(c) Angled corners	(d) Smooth corners		
xxv)	Which of the following is incorrect statement					
	(a) Chamfer command is used to bevel the edges(b) Fillet command is used to round the corners(c) Array command is used to draw multiple copies(d) Scale command is used to draw plain scales					

Answer: (i) a (ii) c (iii) c (iv) d (v) c (vi) d (vii) c (viii) b (ix) c (x) c (xi) c (xii) c (xiii) b (xiv) b (xv) b (xvi) a (xvii) d (xviii) b (xix) a (xx) b (xxi) d (xxii) a (xxiii) c (xxiv) b (xxv) d