CAE Assessment- 4th Marking Period

Computer Aided Engineering

* Required

1.	Email address *	-
2.	Name *	
3.	Email *	-
4.	Period *	
Q	uestions	
5.	A polysolid is *	
	Mark only one oval.	
	useful for creating walls	
	simply a line created as a solid object by	applying surfaces
	created by converting self-intersecting 2D	objects
	All of the above.	

6.	Which of the following are valid angles of revolution for the REVOLVE command?
	Mark only one oval.
	180° -180° 360° All of the above.
7.	Which of the following scale factors should always be used when inserting a 3-D geometry to 3D space? N *
	Mark only one oval.
	1:1 1:2 2:1 2:3
8.	Which of the following axes are used when inserting a 3D object into a drawing? * Mark only one oval.
	Z axis only X and Y axes only Y and Z axes only X, Y, and Z axes

9.	Solids, surfaces, and are 3-D objects. *
	Mark only one oval.
	boolean operations
	mass properties
	lithographic printing
	wireframes
10.	The three traditional views shown in a 2 dimensional multiview drawings are Front, Top, and *
	Mark only one oval.
	Isometric
	Right Side
	Auxiliary
	Left side
11.	Which of the following describes the usefulness of the isometric method? *
	Mark only one oval.
	Creates separate views of an image
	Generates a 2D multiview drawing
	Represents 3D drawings in 2D
	Represents 3D drags exact to scale.

12. Which of the line below represents a section line (hatch)? *

A (THIN)

B (THICK)

C (THIN)

D _____(THIN)

Mark only one oval.

- _____ A
- В
- \bigcirc C
- \bigcirc D

13. Which of the line below represents a Cutting Plane?*

A 1 _ _ _ (THICK) _ _ _ 1

B 1 (THICK) 1

C (THIN)

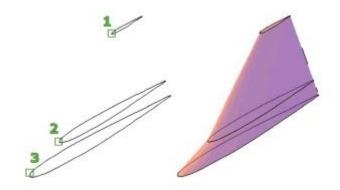
- () A
- _____ B
- \bigcirc C
- A and B

	A (THICK)
	B(THIN)
	C(THIN)
	D (THIN)
	Mark only one oval.
	□ A□ B□ C
15.	What is a sweep? *
	Mark only one oval.
	An object created by extruding between two or more 2D profiles.
	A combination of open and closed shapes.
	An object created by extruding a single 2D profile along a path object.
	A special type of Boolean operation.
16.	What is a loft? *
	Mark only one oval.
	An object created by extruding between two or more 2D profiles.
	An object created by extruding a single 2D profile along a path object
	An object created by extruding a single 2D profile along a path object. A special type of Boolean operation.
	A special type of boolean operation.

14. Which of the line below represents an Object Line? *

17.	Which of the following objects can be converted into a region? *	
	Mark only one oval.	
	Circle, rectangle, and line.	
	Open Rectangle, ellipse, and open polyline.	
	Circle, rectangle, and closed polyline.	
	Any open, 3D polyline.	
18.	A solid sphere can be created either round or elliptical. *	
	Mark only one oval.	
	True	
	False	
19.	When using the REVOLVE command,	_ shapes can
	be revolved into solids or surfaces. *	
	Mark only one oval.	
	open	
	closed	
	fragmented	
	None of the abvove	

20. The image below is an example of using the *



Mark only one oval.

	PRESSPULL	Command
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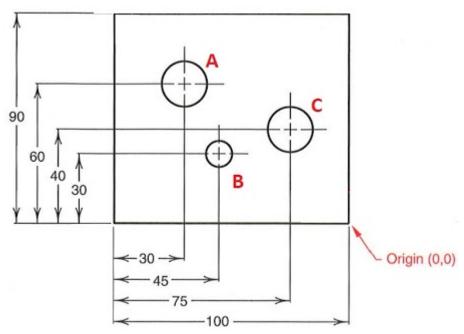
21. Model space viewports must be rectangular, but can overlap *

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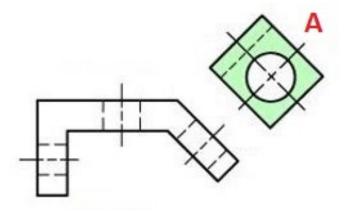


- Composite Line
- CAD Linear
- Center Line
- None of the above

23. The absolute coordinate of hole "A" are _____. *



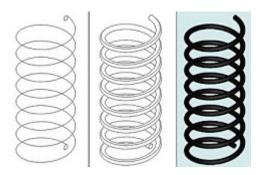
- X= -70 ; Y= 60
- X= 70 ; Y= -60
- X= -60; Y= 70
- X= -90 ; Y= 70



Mark only one oval.

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_			4	

25. The image below is an example of using the *



Mark only one oval.

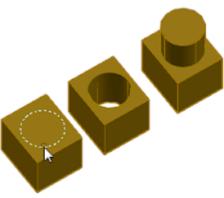
POLYSOLID	Command
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HELIX Command

LOFT Command

THICKEN Command

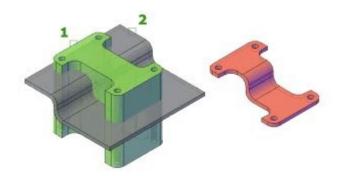
26. The image below is an example of using the *



	Mark only one oval.
	SUBTRACT Command
	PRESSPULL Command
	ADDON Command
	None of the above
	Other:
27.	Extruding four separate lines segments *
	Mark only one oval.
	will create a box made of six surfaces
	is the same as using the LOFT command
	will create a SOLID primitive
	will create four separate surfaces
28.	The SWEEP and LOFT commands can be used to create complex solid models. *
	Mark only one oval.
	True
	False

29.	The Press-Pull tool will the face of a solid model in the direction it faces. *
	Mark only one oval.
	taper
	extrude
	union
	none of the above
30.	The Conceptual Visual Style tool is located on the toolbar. *
	Mark only one oval.
	Modify
	Visual Styles
	3-D Modeling
	All of the above
31.	The SUBTRACT command *
	Mark only one oval.
	creates a composite solid by removing the material common to the selected set of solids.
	create a composite solid by removing the material common to the selected set of regions.
	On invoking this command, you will be prompted to select the set of solids or regions to subtract from.
	All of the above

32. The image below is an example of using the *



Mark only one oval.

- 3DCOPY Command
- INTERSECT Command
- EXTRUDE Command

33. The 3DFACE command *

- Creates a three-sided surface in 3D space.
- Creates a four-sided surface in 3D space.
- Both answers are correct
- Neither of the answers are correct

	Mark only one oval.
	is a 2D enclosed area with physical properties such as centroids or centers of mass.
	is a 2D area that you create from closed planar loops of objects.
	will delete the original object after converting them to regions.
	can be combined with other regions by using union, subtract, or intersect operations.
	All of the above
35.	The INTERSECT command *
	Mark only one oval.
	creates a composite solid or region by retaining the material common to the selected set of solids or regions.
	creates a composite solid by removing the material common to the selected set of regions.
	creates an extrusion along a specified path
	All of the above
36.	A rendering can be an effective tool beause *
	Mark only one oval.
	it makes it easier to visualize the shape and size of a 3D object.
	makes it easier to express your design ideas to other people.
	it is a very effective tool for communicating ideas and explain your design more clearly.
	the user has complete control over the shape, size, color, and surface material.
	All of the above

34. A REGION *

37.	7. The material libraries contain thousands of materials by					
	Mark only one oval.					
	using the Material Browser.					
	visiting the local library					
	ordering Material Samples online					
	None of the above					
38.	What is the main purpose of an assembly drawing? *					
	Mark only one oval.					
	It describes the parts in 3D.					
	It describes the shape of the parts.					
	It shows the parts as they fit together.					
	It shows the type of the materials.					
39.	The three types of Boolean operations are *					
	· · · · · · · · · · · · · · · · · · ·					
	Mark only one oval.					
	subtraction, addition, and multiplication					
	subtraction, addition, and intersection					
	subtraction, union, and intersection					
	subtraction, union, and multiplication					

40.	A helix *			
	Mark only one oval.			
	is a line in the form of a spiral			
	can be created as a 2D or 3D object			
	is a solid			
	D. All of the above			
41.	There are two types of viewports in AutoCAD. Viewports in model space are called viewports. *			
	Mark only one oval.			
	floating			
	freeform			
	aligned			
	tiled			
42.	The BOX command creates surface boxes with unequal-length sides and cubes. *			
	Mark only one oval.			
	True			
	False			
43.	You can select and assign materials to 3D objects individually or by Layer *			
	Mark only one oval.			
	True			
	False			

44.	I. The material libraries in Auto CAD cannot be modified. You cannot create custon libraries for specific projects. *				
	Mark only one oval.				
	True False				
45.	Which correct statement (s) about lighting is (are) correct? *				
	Mark only one oval.				
	Lighting should be turned off for rendering a realistic image of an object.				
	Without proper lighting, a rendered image may not show the features the way you expect.				
	It is better to turn the lights off in the classroom so the glare does not bother your eyes.				
46.	To create the 3D drawing below, you would first draw a profile and then use the				
	command. *				
	2				
	Mark only one oval.				
	Revolve				
	Extrude				
	Loft				
	Presspull				

47.	With the INTERSECT command, *			
	Mark only one oval.			
	you can create a 3D solid from the common volume of two or more existing 3D solids, surfaces, or regions.			
	If you select a mesh, you can convert it to a solid or surface before completing the operation.			
	You can extrude 2D profiles and then intersect them to create a complex model efficiently.			
	All of the above			
48.	In order to draw threads on a bolt, you must know the following: *			
	Check all that apply.			
	the Major DIA (D): The largest diameter.			
	the Minor DIA (d): The smallest diameter.			
	the Pitch DIA (d P): The diameter at which a line cuts the spaces and threads equally.All of the above.			
49.	What statement (s) is (are) true about section views? *			
	Mark only one oval.			
	Making the cut and drawing the view in the proper location is critical.			
	It is very important to visualize what the part will look like after it is cut open.			
	A section view is a view used on a drawing to show an area or hidden part of an object by cutting away or removing some of that object.			
	All of the above			

50.	The UCS X, Y, and Z coordinates of any point are measured with respect to the fixed origin (0,0,0). It is fixed and cannot be moved. *			
	Mark only one oval.			
	True			
	False			
51.	Which command is used to create an elliptical cylinder? *			
	Mark only one oval.			
	ELLIPSE			
	ELCYL			
	CYLINDER			
	None of the above			
52.	To join two model space viewports into a single viewport, they must be adjacent and form a(n) when joined. *			
	Mark only one oval.			
	Rectangle			
	Extrusion			
	Helix			
	LOFT			

When using the REVOLVE command,	_ shapes can
be revolved into solids or surfaces. *	
Mark only one oval.	
Open	
Mesh	
Closed	
extruded	
To create a sweep that tapers from the beginning of the path to the	end,
the option of the SWEEP command	s used. *
Mark only one oval.	
Scale	
Reduce	
Diminish	
None of the above	
The MASSPROP shortcut will provide the following information. *	
Mark only one oval.	
mass	
volume	
bounding box	
all of the above	
	be revolved into solids or surfaces. * Mark only one oval. Open Mesh Closed extruded To create a sweep that tapers from the beginning of the path to the the option of the SWEEP command is Mark only one oval. Scale Reduce Diminish None of the above The MASSPROP shortcut will provide the following information. * Mark only one oval. mass volume bounding box

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