CAE-II- Unit 4-Use 3D Modeling-2020

Computer Aided Engineering

* Required

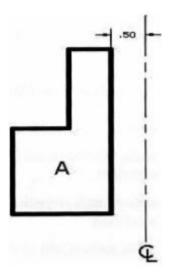
1.	Email address *		
2.	First Name *		
3.	Last Name *		
4.	Email *		
5.	How many axes are required to define a pla	ane? *	
	Mark only one oval.		
	1		
	2		
	3		
	4		

6.	If the XY plane is designated as the front view, the plane would be a profile plane. *
	Mark only one oval.
	◯ XZ
	isometric
	YZ
	construction
7.	A construction plane on a CAD system *
, .	
	Mark only one oval.
	allows for creation of geometry
	adjusts the drawing scale
	produces mass quantities of objects
	adjusts the dimension scale properties
_	
8.	Use when inserting a 3-D object into a drawing. *
	Mark only one oval.
	X axis only
	Y and Z axes only
	X and Y axes only
	X, Y, and Z axes

9.	A non-standard plane needs to be defined *			
	Mark only one oval.			
	so that the object scale will adjust automatically			
	so that a part can be drawn on an angle using manual drafting tools			
	because most objects in manufacturing consist of right angles			
	because not everything is parallel to the Cartesian Coordinate system			
10.	Inserting geometry on a predefined construction plane requires the construction plane to be *			
	Mark only one oval.			
	visible			
	in color			
	current			
	tangent			
11.	The thimble on an inch micrometer has graduations. ???????????**			
	Mark only one oval.			
	4			
	10			
	25			
	100			

12.	Use a to calibrate a measuring instrument. ??????????? *				
	Mark only one oval.				
	coordinate measuring machine				
	optical comparator				
	set of gage blocks				
	radiography inspection device				
13.	Use a to determine the dimensions of a machined part to an accuracy of 0.0001. *				
	Mark only one oval.				
	caliper				
	steel rule				
	vernier micrometer				
	snap gage				
14.	What operation is performed on A and B to produce result C? *				
	A B C				
	Mark only one oval.				
	union				
	erase				
	subtraction				
	scale				

15. When profile A is revolved around the center line, the hole diameter will be *



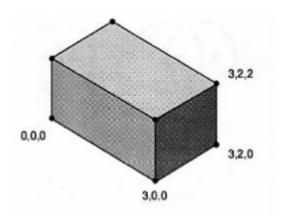
Mark only one oval.

- .5
- .75
- 1.0
- 1.5
- 16. The generation of a 2-D drawing from a 3-D model requires *

Mark only one oval.

- a valid 3-D model
- preset view ports
- a valid isometric view
- preset line types and layers

17. What is the total surface area of the object shown? *



- Mark only one oval.
- 24
- 32
- 48
- 18. Which of the following are 3-D objects? *

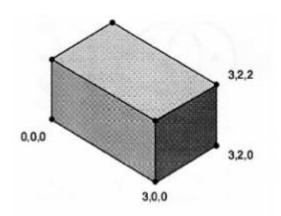
Mark only one oval.

- surfaces, solids, and Boolean operations
- solids, wireframes, and Boolean
- surfaces, mass properties, and coincident geometry wireframes
- solids, surfaces, and wireframes intersection reduces mass from coincident geometry
- 19. When creating 3-D geometry, the scale factor should always be 1 because it *

Mark only one oval.

- simulates reality
- will reduce file size
- will reduce distortion
- ensures clarity

20. What is the volume of the 3-D solid described below? *



- Mark only one oval.
- 6 cubic units
- 10 cubic units 48
- 12 cubic units
- 24 cubic units
- 21. Which of the following commands allows the designer to create a curved solid from a two dimensional polyline object by sweeping it around an axis? *

Mark only one oval.

- Array
- () Trim
- Revolve
- ____ Drawing limits

22.	which of the following scale factors should always be used when inserting a 3-D geometry to 3-D space? *
	Mark only one oval.
	1:1
	1:2
	2:1
	2:3
23.	Solids, surfaces, and are 3-D objects. *
	Mark only one oval.
	Boolean Operations
	Mass properties
	Lithographic printing
	Wireframes
24.	Which of the following axes are used when inserting a 3 dimensional 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 and axes