

CAE Assessment- 3rd Marking Period

Computer Aided Engineering

* Required

1. Email address *

2. Name *

3. Email *

4. Period *

Questions

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°
- ☐ 45°
- ☐ 360°
- ☐ All of the above.

7. 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.

8. What is a loft? *

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.

9. There are twelve solid primitives in AutoCAD. *

Mark only one oval.

- ☐ True
- ☐ False

10. A solid sphere can be created either round or elliptical. *

Mark only one oval.

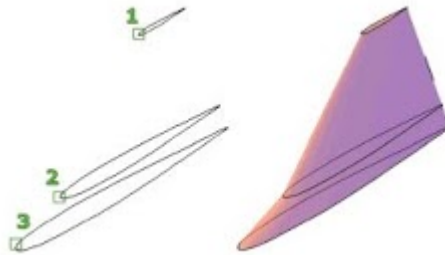
- ☐ True
☐ False

11. When using the REVOLVE command, _____ shapes can be revolved into solids. *

Mark only one oval.

- ☐ open
☐ closed
☐ fragmented
☐ None of the above

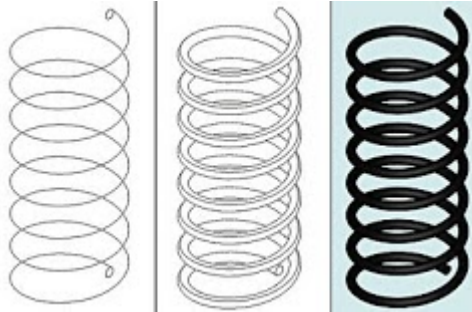
12. The image below is an example of using the *



Mark only one oval.

- ☐ PRESSPULL Command
☐ ELEVATION Command
☐ LOFT Command
☐ EXTRUDE Command

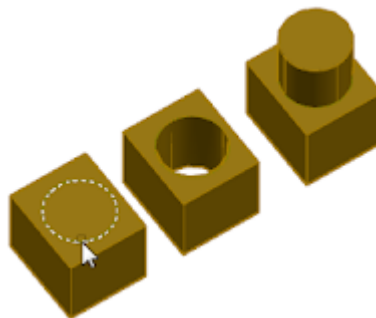
13. The image below is an example of using the *



Mark only one oval.

- ☐ SPRING Command
- ☐ HELIX Command
- ☐ LOFT Command
- ☐ THICKEN Command

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



Mark only one oval.

- ☐ SUBTRACT Command
- ☐ PRESSPULL Command
- ☐ ADDON Command
- ☐ None of the above

15. 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

16. The SWEEP and LOFT commands can be used to create complex solid models. *

Mark only one oval.

- ☐ True
- ☐ False

17. 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

18. The Conceptual Visual Style tool is located on the _____ toolbar. *

Mark only one oval.

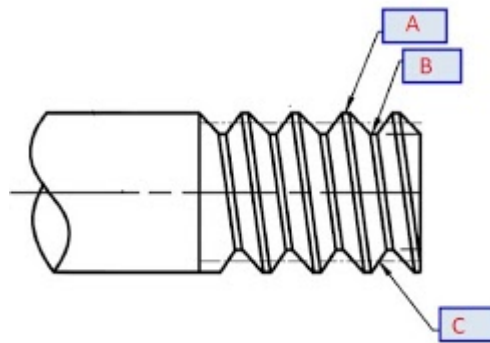
- ☐ Modify
- ☐ Visual Styles
- ☐ 3-D Modeling
- ☐ All of the above

19. 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

20. Letter "A" in the image below image below represents the *



Mark only one oval.

- ☐ Peak
- ☐ Crest
- ☐ Top
- ☐ Flats

21. The 3DFACE command *

Mark only one oval.

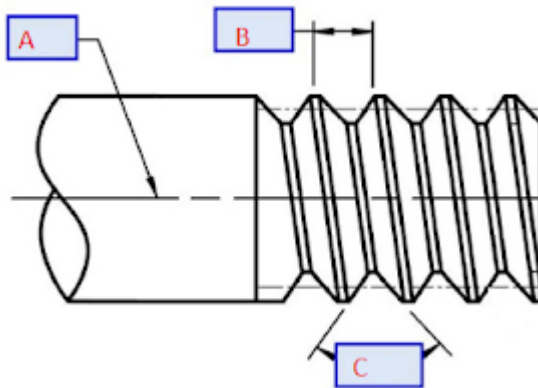
- ☐ Creates a three-sided surface in 3D space.
- ☐ Creates a four-sided surface in 3D space.
- ☐ Both answers are correct
- ☐ Neither of the answers are correct

22. A REGION *

Mark only one oval.

- ☐ is a 2D enclosed area with physical properties.
- ☐ 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

23. Refer to the image below. The PITCH is represented by the letter... *



Mark only one oval.

- ☐ Letter "A"
- ☐ Letter "B"
- ☐ Letter "C"

24. A rendering can be an effective tool because *

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

25. 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

26. You can select and assign materials to 3D objects individually or by Layer *

Mark only one oval.

- ☐ True
- ☐ False

27. The material libraries in AutoCAD cannot be modified. You cannot create custom libraries for specific projects. *

Mark only one oval.

- ☐ True
- ☐ False

28. Which correct statement (s) about lighting is (are) correct? *

Mark only one oval.

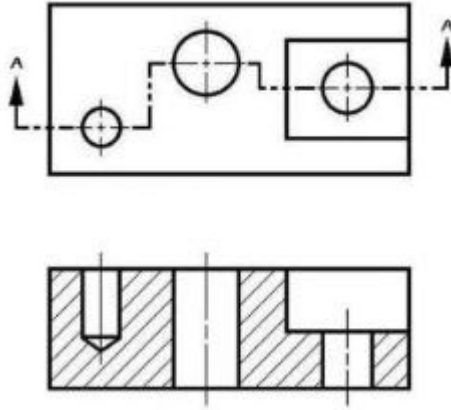
- ☐ Lighting should be turned off for rendering a realistic image of an object.
- ☐ Without proper lighting, a rendered image may not show the features the way you expect.
- ☐ It is better to turn the lights off in the classroom so the glare does not bother your eyes.

29. 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

30. A/An ____ section is shown below. *



Mark only one oval.

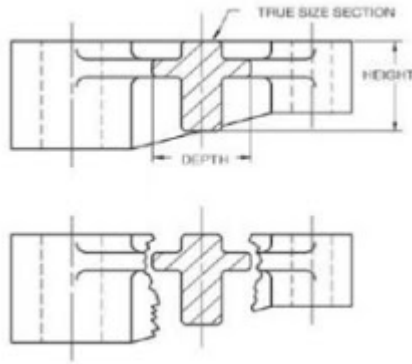
- ☐ removed
- ☐ offset
- ☐ revolved
- ☐ broken out

31. The main purpose of an assembly drawing is to shows the parts as they fit together *

Mark only one oval.

- ☐ True
- ☐ False

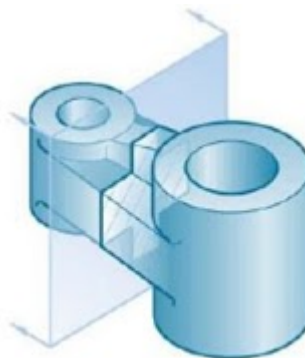
32. The _____ section is shown below. *



Mark only one oval.

- ☐ A. Revolved
- ☐ B. Rotated
- ☐ C. Removed
- ☐ D. Both A and B

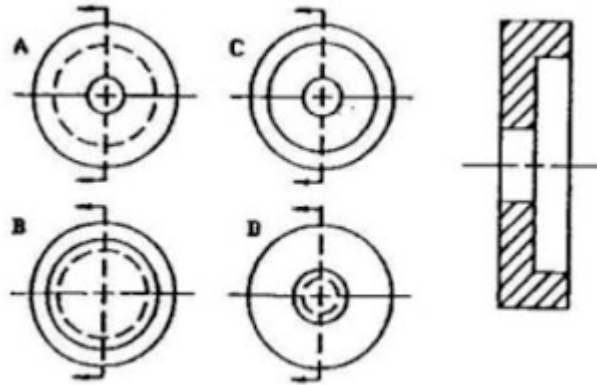
33. Which section is needed for the drawing below? *



Mark only one oval.

- ☐ Revolved
- ☐ Removed
- ☐ Rotated
- ☐ Offset

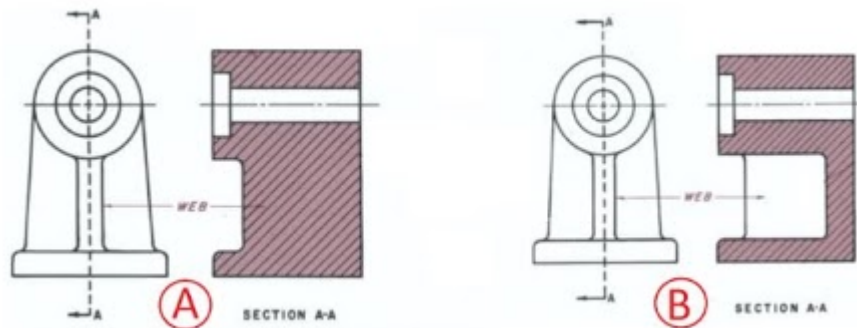
34. The correct solution to the drawing on the right is illustrated by: *



Mark only one oval.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

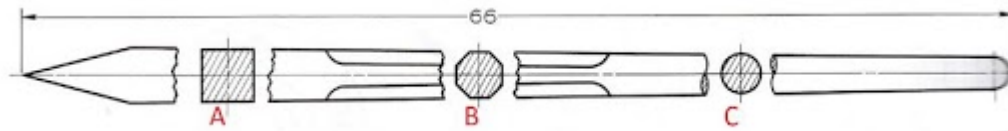
35. Which image depicts the conventional method of cutting a section through a web? *



Mark only one oval.

- ☐ Image A
- ☐ Image B
- ☐ They are both acceptable
- ☐ Neither A nor B are acceptable

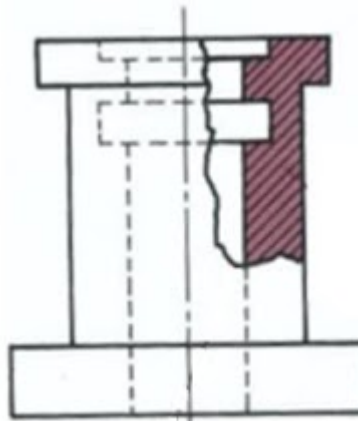
36. Which of the section represents a REMOVED section? *



Mark only one oval.

- ☐ Section at "A"
- ☐ Section at "B"
- ☐ Section at "C"
- ☐ None of the above
- ☐ All of the above

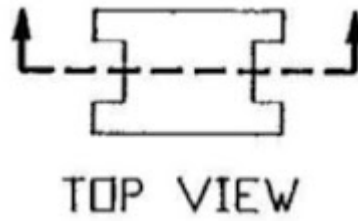
37. The section below is a _____ section. *



Mark only one oval.

- ☐ Removed
- ☐ Exploded
- ☐ Broken-out
- ☐ Broken Piece

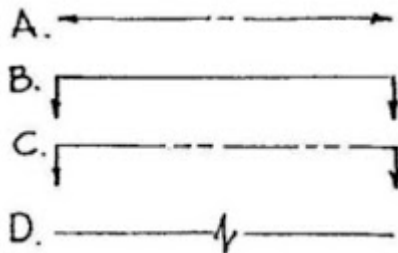
38. The cutting plane shown below indicates drawing a section that will take the place of which view? *



Mark only one oval.

- ☐ Front View
- ☐ Right Side View
- ☐ Left Side View
- ☐ Bottom View

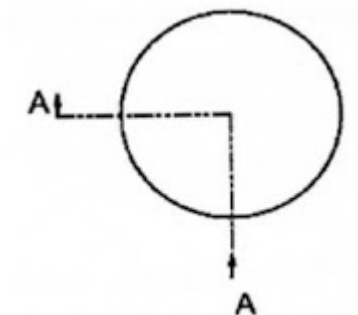
39. The best example of a cutting plane line shown below is: *



Mark only one oval.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

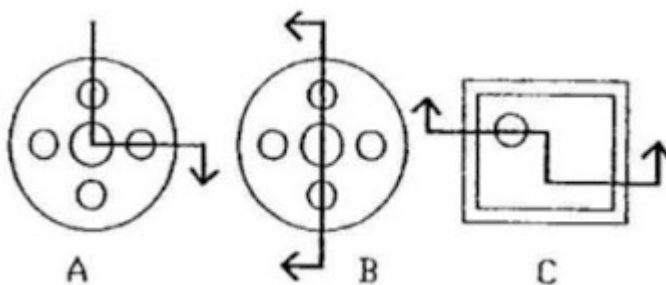
40. A ____ section is shown below. *



Mark only one oval.

- ☐ full
- ☐ three-quarter
- ☐ half
- ☐ quarter

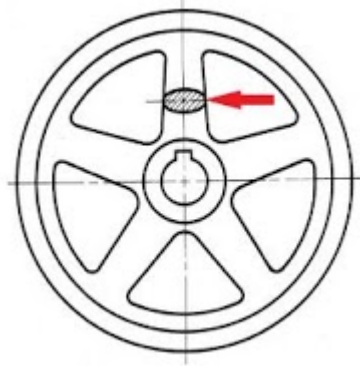
41. Which of the cutting plane lines shown below would indicate a 1/2 section? *



Mark only one oval.

- ☐ A
- ☐ B
- ☐ C

42. The red arrow is pointing to a _____. *



Mark only one oval.

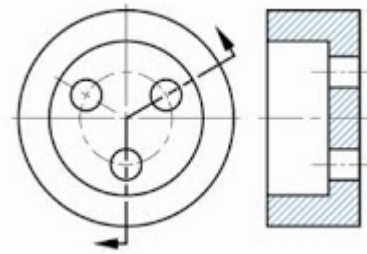
- ☐ right side view
- ☐ revolved section
- ☐ removed front view
- ☐ front section

43. Use hatching in an assembly section drawing to *

Mark only one oval.

- ☐ indicate materials
- ☐ clarify dimensions
- ☐ shade pictorial drawings
- ☐ clarify manufacturing process

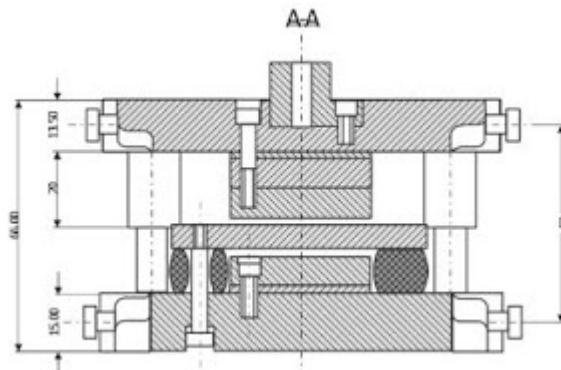
44. Which of the following sections is shown below? *



Mark only one oval.

- ☐ Broken out
- ☐ aligned
- ☐ offset
- ☐ revolved

45. The drawing below represents a (n) _____ drawing. *



Mark only one oval.

- ☐ front section
- ☐ assembly section
- ☐ side section
- ☐ top section

46. The portion of the drawing that contains information about the type of material, number of parts, and identifies each part on the drawing is the _____.*

Mark only one oval.

- ☐ border
- ☐ general notes
- ☐ bill of materials
- ☐ title block

47. Dimensions on items in assemblies are typically.*

Mark only one oval.

- ☐ always required
- ☐ shown on each part
- ☐ toleranced
- ☐ not shown

48. When merging more than one drawing to create an assembly drawing, the AutoCAD command to use is ____.*

Mark only one oval.

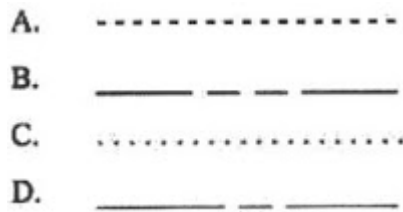
- ☐ List
- ☐ Paste
- ☐ Insert
- ☐ Find

49. Which of the following components must be the same when creating an assembly drawing? *

Mark only one oval.

- ☐ Materials
- ☐ Line type
- ☐ Color
- ☐ Scale

50. Which of the following is a center line? *



Mark only one oval.

- ☐ A
- ☐ B
- ☐ C
- ☐ D

51. The line coordinates (0,0), (2,0), (2,4), (0,4), and (0,0) describe a *

Mark only one oval.

- ☐ Circle
- ☐ Rectangle
- ☐ Square
- ☐ Cube

52. When a drawing is to be plotted to full scale, the designer should set the *

Mark only one oval.

- ☐ plot area to layout
- ☐ plot area to maximum
- ☐ plot scale to 1:1
- ☐ plot scale to fit

53. Mechanical B-size drawing paper measures *

Mark only one oval.

- ☐ 4 inches by 6 inches
- ☐ 8 inches by 10 inches
- ☐ 11 inches by 17 inches
- ☐ 34 inches by 44 inches

54. A drawing scale of half size should be labeled *

Mark only one oval.

- ☐ 1:1
- ☐ 1:2
- ☐ 2:1
- ☐ 4:2

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