CAE-II- Unit 2B-Create-Manipulate-Dwg-info & Draw-Design-Assemblies

Computer Aided Engineering

* Required

1. Email address *

    _____

2. First Name *

    _____

3. Last Name *

    _____

4. Email *

    _____

5. To create an assembly drawing, all components must be the same *

    Mark only one oval.

    ( ) color

    ( ) scale

    ( ) format

    ( ) line type

6. The primary purpose of an assembly drawing is to *

Mark only one oval.

   ◯ describe the shape of parts

   ◯ show the parts as they fit together

   ◯ show the types of materials

   ◯ describe the parts in 3-D

7. Dimensions on items in assemblies are typically *

Mark only one oval.

   ◯ not shown

   ◯ required

   ◯ shown on each part

   ◯ toleranced

8. Hidden lines in a sectional assembly view are *

Mark only one oval.

   ◯ displayed as a solid line

   ◯ typically not shown

   ◯ shown as phantom lines

   ◯ mandatory

9. Information found on a bill of materials includes *

   Mark only one oval.

   - size and tolerance
   - cutting speed and tool path
   - material type and quantity
   - drawing scale and size

10. 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 *
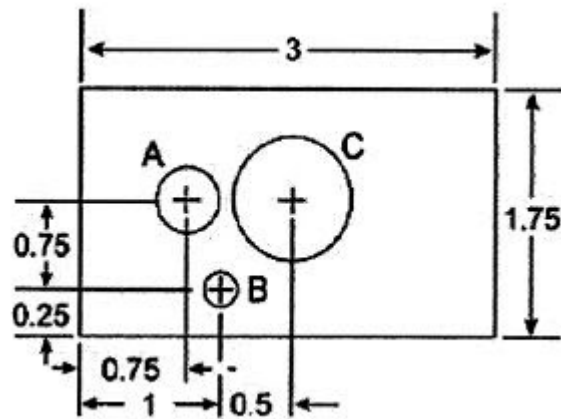
    Mark only one oval.

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

11. The_____ includes all of the components in an assembly. *

    Mark only one oval.

    - production sheet
    - work order
    - parts list
    - title block

12. The absolute coordinates of Hole C are ____ relative to the lower left corner. *

Mark only one oval.

○ X 1.50;Y 1.00

○ X 3.00; Y 2.00

○ X -1.00; Y -1.50

○ X -1.50; Y -1.00

13. The absolute coordinates of the lower left corner of a 3-inch square is located at x=3.00; y=2.00. The upper right corner will be located at *

Mark only one oval.

○ A. x0.00; y-1.00

○ B. x5.00; y6.00

○ C. x6.00; y2.00

○ D. x6.00; y5.00

14. The ____command allows a designer to create duplicates of existing objects in a rectangular or circular (polar) pattern. *

Mark only one oval.

○ A. Copy

○ B. Array

○ C. Mirror

○ D. Scale

15. The ____ command allows a designer to shorten an entity to an intersection or remove a section of an entity between two intersections. *

Mark only one oval.

○ A. Scale

○ B. Copy

○ C. Trim

○ D. Mirror

16. The ____ command allows a designer to create a curved solid from a 2 D Polyline object by sweeping it around an axis. *

Mark only one oval.

○ A. Revolve

○ B. Scale

○ C. Mirror

○ D. Offset

17. The ____ command allows a designer to configure the size of the drawing space in AutoCAD. *

   Mark only one oval.

   ○ A. Zoom Window

   ○ B. Dimension Variables

   ○ C. Zoom Extents

   ○ D. Drawing Limits

18. Various layers in a CAD system may *

   Mark only one oval.

   ○ store different types of information

   ○ be current simultaneously

   ○ have different colors and software

   ○ sort data to other machines

19. The LAYER command *

   Mark only one oval.

   ○ initiates the layer and linetype manager

   ○ places new dimensions on the current layer

   ○ changes all highlighted layers to the current one

   ○ freezes the current layer

20. _____ is a CAD editing command. *

Mark only one oval.

⬭ Point

⬭ Mirror

⬭ Line

⬭ Zoom

21. The following line coordinates describe what type of shape? *

0,0

2,0

2,2

0,2

0,0

Mark only one oval.

⬭ circle

⬭ rectangle

⬭ 3-D square

⬭ square

22. Coordinates for a drawing may be entered by *

Mark only one oval.

○ using the drop and drag method

○ inputting the values directly from the keyboard

○ inputting values using the stretch command

○ inserting values through the use of the offset command

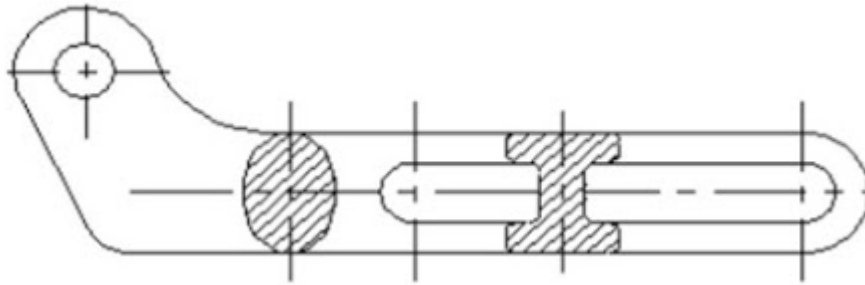23. Use ____ to clarify graphic information. *

Mark only one oval.

○ menus or submenus

○ headings or topics

○ Labels or notes

○ Tabs or inserts

24. A text parameter that can be set is *

Mark only one oval.

○ a font

○ a stylus

○ an increment

○ spell check

25. A/An_____ section is shown below *

Mark only one oval.

○ Offset

○ Removed

○ Revolved

○ Broken

26. An auxiliary view is a projection on an auxiliary plane that is _____ to an inclined surface. *

Mark only one oval.

○ tangent

○ vertical

○ horizontal

○ parallel

27. Secondary auxiliary views are used to find the true size and shape of a surface that is positioned on a/an *

Mark only one oval.

○ outline view

○ inclined view

○ parallel plane

○ oblique plane

28. Use the_____ command to merge more than one drawing and create an assembly drawing. *

Mark only one oval.

○ Insert

○ Copy

○ Compile

○ Interface

29. A symbol (or block) library is helpful to *

Mark only one oval.

○ create dimensions

○ Recall lost information

○ Establish Grounds or families

○ Avoid Repetitive Drawings

30. An important advantage of using a block is to *

Mark only one oval.

○ save drawing time

○ reduce material costs

○ save storage space

○ reduce drawing size

31. Which of the following is required when creating a block? *

Mark only one oval.

○ insertion point

○ new layer

○ original drawing point

○ raster image

32. Place dimensions on the _____ *

Mark only one oval.

○ most descriptive view

○ top plan view

○ view with fewest hidden lines

○ front elevation view

33. When dimensions are chained, the tolerances are *

Mark only one oval.

- ◯ Cartesian
- ◯ absolute
- ◯ incremental
- ◯ cumulative

34. The acronym, FAO, stands for *

Mark only one oval.

- ◯ Finish Angles Only
- ◯ Finish All Over
- ◯ Fillet Above Only
- ◯ Fillet Around Only

35. The acronym, NPT, on a drawing indicates *

Mark only one oval.

- ◯ Not Perfect Tolerance
- ◯ New Part Testing
- ◯ Noted Production Tolerance
- ◯ National Pipe Thread

36. The term_____ refers to horizontal dimensioning. *

Mark only one oval.

○ unidirectional

○ bilateral

○ Aligned

○ conventional

37. Avoiding cluttered dimensions and eliminating accumulative dimension error are two reasons for using _____ dimensioning. *
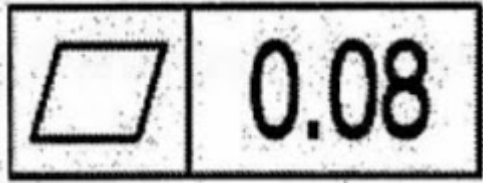
Mark only one oval.

○ metric

○ bilateral

○ ordinate

○ unilateral

38. Which of the following is a system of dimensioning that defines the design intent of a spatial relationship between manufactured features? *

Mark only one oval.

○ GD&T

○ SAE

○ ANSI

○ DIM

39. What is the characteristic form for the following symbol? *

Mark only one oval.

- ◯ oblique
- ◯ profile
- ◯ straightness
- ◯ flatness

40. A dimensioning system that controls parallelism is _____ tolerancing. *

Mark only one oval.

- ◯ limit
- ◯ plus/minus
- ◯ geometric
- ◯ rigid

41. When using GD&T, positional tolerances should refer to a *

Mark only one oval.

- ◯ centerline
- ◯ datum
- ◯ feature
- ◯ coordinate

42. A cylindrical tolerance zone for a hole is a characteristic of _____ dimensioning. *

Mark only one oval.

- ◯ true position
- ◯ clearance factor
- ◯ maximum material condition
- ◯ unilateral

43. Objects in CAD are typically drawn to _____ scale. *

Mark only one oval.

- ◯ eighth
- ◯ quarter
- ◯ full
- ◯ half

44. In third-angle projection, which views are most commonly used? *

Mark only one oval.

- ◯ top, front, and left side
- ◯ top, front, and right side
- ◯ front, top, and rear
- ◯ left side, right side, and front

45. Adjusting zoom factor in a drawing changes the _____. *

Mark only one oval.

◯ scale

◯ line weights

◯ line types

◯ view

46. Circular objects, such as a cylinder, can often be shown in _____ view(s). *

Mark only one oval.

◯ 1

◯ 2

◯ 3

◯ 4

47. Hatch patterns on a view represent a/an _____ view. *

Mark only one oval.

◯ end

◯ auxiliary

◯ sectional

◯ isometric

48. Two types of pictorial drawings are *

Mark only one oval.

○ perspective and isometric

○ orthographic and oblique

○ third-angle projection and auxiliaries

○ isomeric- and first-angle projection

49. Isometric axes are positioned at _____ apart. *

Mark only one oval.

○ 90 degrees

○ 120 degrees

○ 180 degrees

○ 270 degrees

50. Use _____ drawing methods to create a pictorial view. *

Mark only one oval.

○ orthographic

○ isometric

○ lithographic

○ auxiliary

51. On an isometric drawing, lines that are NOT parallel to any of the isometric axes are called _____ lines. *

Mark only one oval.

○ non-isometric

○ obtuse

○ non-oblique

○ true length

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

Mark only one oval.

○ 1:1

○ 1:2

○ 2:1

○ 4:2

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. 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