Al-Mustaqbal University
Department (هندسة تقنيات الطائرات والطائرات المسيرة)
Class (الاولى)
Subject (Engineering drawing)
Lecturer (Mays Mohammed Abd al-Jaleel)
1st term

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Part1:General

Interface & Workspace (واجهة البرنامج ومساحة العمل)

1. The default file extension for an AutoCAD drawing file is:

A. .doc B. .dwg C. .pdf D. .txt **Answer: Option B**

2. The area in AutoCAD where you create your drawings is called the:

A. Command Line B. Status Bar C. Workspace (Model Space) D. Ribbon **Answer: Option C**

3. To cancel any active command in AutoCAD, which key should you press?

A. Enter B. Shift C. Esc D. Ctrl **Answer: Option C**

4. The bar located at the bottom of the screen that displays cursor coordinates and drawing aids is called:

A. Menu Bar B. Title Bar C. Status Bar D. Tool Bar **Answer: Option C**

5. Which window displays the history of commands used and allows you to type commands manually?

A. Command Line B. Layer Properties C. Design Center D. Tool Palettes **Answer: Option A**

6. The "Ribbon" in AutoCAD interface contains:

A. Only the command line B. Tabs and Panels with tools C. The drawing coordinates D. The file history **Answer: Option B**

7. Which key is used to repeat the last command used?

A. Esc B. Enter or Spacebar C. Shift D. Tab **Answer: Option B**

8. To zoom in and out of the drawing, you should use:

A. The keyboard arrows B. The mouse scroll wheel C. The spacebar D. The F1 key **Answer: Option B**

9. Which function key opens the Text Window (Command History)?

A. F1 B. F2 C. F3 D. F8 **Answer: Option B**

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10. "PAN" tool is used to: A. Zoom into the drawing B. Rotate the drawing C. Move the view of the drawing without changing coordinates D. Delete objects **Answer: Option C**

Part 2: Coordinates & Systems (أنظمة الإحداثيات)

11. In the Cartesian coordinate system, the horizontal axis is represented by:

A. X-axis B. Y-axis C. Z-axis D. W-axis **Answer: Option A**

12. To enter a point using "Absolute Coordinates", you type:

A. @x,y B. x,y C. <angle,length D. #x,y **Answer: Option B**

13. The symbol "@" is used for which type of coordinate entry?

A. Absolute Coordinates B. Relative Coordinates C. World Coordinates D. None of the above **Answer: Option B**

14. If you want to draw a line 50 units long to the right using Relative Rectangular coordinates, you type: A. 50,0 B. @50,0 C. 0,50 D. @0,50 **Answer: Option B**

15. In Polar Coordinates (@Distance < Angle), the angle 90 degrees points towards: A. Right (East) B. Left (West) C. Up (North) D. Down (South) **Answer: Option C**

16. To draw a horizontal line to the left with a length of 20 units using Polar Coordinates, you type: A. @20<0 B. @20<90 C. @20<180 D. @20<270 **Answer: Option C**

17. The origin point (0,0) is located at the intersection of: A. X and Z axes B. X and Y axes C. Y and Z axes D. None of the above **Answer: Option B**

18. Which input method allows you to type dimensions directly near the cursor? A. Dynamic Input B. Static Input C. Command Input D. Manual Input **Answer: Option A**

19. A line length is 100 and angle is 45. The correct polar input is: A. @45<100 B. @100,45 C. @100<45 D. 100<45 **Answer: Option C**

20. What is the value of the Y-coordinate on the X-axis? A. 1 B. 100 C. 0 D. Infinity **Answer: Option C**

Part 3: Drawing Tools (2D Tools) (أدوات الرسم)

21. Which command is used to draw a straight line? A. Circle B. Arc C. Line D. Polyline
Answer: Option C

22. To close a sequence of lines and return to the start point, you type: A. E (End) B. C (Close) C. F (Finish) D. S (Stop) **Answer: Option B**

23. Which command creates a rectangle? A. BOX B. REC C. SQU D. TRI **Answer: Option B**

24. To draw a circle with a known diameter, which option should you choose after activating the Circle command? A. Radius B. Diameter (D) C. Area D. Circumference
Answer: Option B

25. "TTR" in the Circle command stands for: A. Tan, Tan, Radius B. Top, Top, Right C. Two, Three, Radius D. Trim, Trim, Radius **Answer: Option A**

26. Which command creates a multi-sided closed object (like a hexagon or pentagon)? A. Rectangle B. Polygon C. Arc D. Ellipse **Answer: Option B**

27. When drawing a Polygon, "Inscribed in circle" means the polygon is drawn: A. Outside the imaginary circle B. Inside the imaginary circle C. Crossing the imaginary circle D. Without a circle **Answer: Option B**

28. To draw a bolt head (Hexagon), how many sides should you specify in the Polygon command? A. 4 B. 5 C. 6 D. 8 **Answer: Option C**

29. Which tool creates a continuous line with multiple segments that acts as a single object? A. Line B. Polyline C. Ray D. Construction Line **Answer: Option B**

30. The "Spline" tool is used to create: A. Straight lines B. Perfect circles C. Smooth curved lines D. Sharp angles **Answer: Option C**

31. To draw a curve using "Control Vertices" (Bezier style), you must change the Spline: A. Color B. Method C. Layer D. Width **Answer: Option B**

32. Which command creates an infinite construction line? A. Line B. XLine C. Ray D. Polyline **Answer: Option B**

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33. An arc can be drawn using which three points? A. Start, Center, End B. Start, End, Radius C. 3 Points D. All of the above **Answer: Option D**

34. To create a rectangle with specific dimensions, you press "D" for: A. Distance B. Dimensions C. Diameter D. Degree **Answer: Option B**

35. Which tool is best for drawing freehand sketches? A. Line B. Sketch (or Spline) C. Circle D. Rectangle **Answer: Option B**

Part 4: Algorithms & Theory (Syllabus Specific) (نظريات وخوارزميات)

36. The DDA algorithm stands for: A. Digital Differential Analyzer B. Direct Drawing Assistant C. Data Dimension Analysis D. Digital Drawing Axis **Answer: Option A**

37. DDA algorithm is used for generating: A. Circles only B. Lines C. 3D Solids D. Text **Answer: Option B**

38. The Bresenham's Line Algorithm is preferred over DDA because: A. It uses floating-point arithmetic B. It uses integer arithmetic (faster) C. It is slower D. It is less accurate **Answer: Option B**

39. A Bezier curve is defined by: A. A single center point B. Control points (vertices) C. Radius and Diameter D. Only a start point **Answer: Option B**

40. In a Bezier curve, the curve typically: A. Passes through all control points B. Does not pass through the intermediate control points C. Is always a straight line D. Is a perfect circle **Answer: Option B**

41. Changing the position of a "Control Vertex" in a Spline will: A. Break the line B. Delete the line C. Change the shape of the curve smoothly D. Change the color of the line **Answer: Option C**

42. The "Resolution" of a screen is measured in: A. Inches B. Centimeters C. Pixels D. Lines **Answer: Option C**

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43. Which algorithm avoids rounding of floating-point numbers? A. DDA B. Bresenham C. Both D. None **Answer: Option B**

44. CAD stands for: A. Computer Aided Design B. Computer Applied Drawing C. Creative Art Design D. Control Aided Drafting **Answer: Option A**

45. "Rasterization" is the process of: A. Converting vector graphics into pixels B. Converting pixels into vectors C. Saving a file D. Deleting a file **Answer: Option A**

Part 5: Modify Tools (أدوات التعديل)

46. Which command is used to remove unwanted parts of a line up to a cutting edge? A. Erase B. Trim C. Delete D. Break **Answer: Option B**

47. To create a rounded corner between two lines, use: A. Chamfer B. Fillet C. Blend D. Smooth **Answer: Option B**

48. To create an angled (beveled) corner between two lines, use: A. Chamfer B. Fillet C. Arc D. Extension **Answer: Option A**

49. Which command creates concentric circles or parallel lines at a specific distance? A. Copy B. Mirror C. Offset D. Move **Answer: Option C**

50. The shortcut key for "Move" command is: A. Mo B. M C. V D. O **Answer: Option B**

51. To make a mirror image of an object, you need to define: A. A center point B. A mirror line (axis) C. A radius D. A diameter **Answer: Option B**

52. Which command creates multiple copies of an object in a rectangular or polar pattern? A. Group B. Copy C. Array D. Mirror **Answer: Option C**

53. To lengthen a line until it meets another object (boundary), use: A. Trim B. Extend C. Stretch D. Lengthen **Answer: Option B**

54. The "Explode" command is used to: A. Delete the drawing B. Break a compound object (like Polygon) into individual lines C. Join lines together D. Save the file **Answer: Option B**

55. To enlarge or reduce the size of an object, use: A. Stretch B. Scale C. Zoom D. Extend **Answer: Option B**

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56. When using the "Rotate" command, positive angles rotate the object: A. Clockwise B. Counter-Clockwise C. Vertically D. Horizontally **Answer: Option B**

57. Shortcut for "Copy" command is: A. C B. CO or CP C. CC D. CY **Answer: Option B**

58. To cut a line into two parts at a specific point, use: A. Break at Point B. Trim C. Cut D. Erase **Answer: Option A**

59. Which command combines multiple lines into a single Polyline? A. Explode B. Join C. Group D. Attach **Answer: Option B**

60. Before using "Trim", in older AutoCAD versions, you usually press Enter to: A. Select all objects as cutting edges B. Cancel the command C. Save the file D. Exit the program **Answer: Option A**

61. To erase an object, you can select it and press: A. Delete key B. "E" then Enter C. Both A and B D. None of the above **Answer: Option C**

62. Which modify tool requires a "Base Point"? A. Move B. Copy C. Rotate D. All of the above **Answer: Option D**

63. "Stretch" command works best with which selection method? A. Window selection (Blue) B. Crossing selection (Green) C. Single click D. All selection **Answer: Option B**

64. To create a copy of an object while rotating it, you can use the _____ option inside Rotate command. A. Reference B. Copy C. Base D. Mirror **Answer: Option B**

65. In Offset command, "Through" option allows you to: A. Offset by a specific distance B. Offset through a specific point C. Offset automatically D. Delete the source **Answer: Option B**

Part 6: Drawing Aids & Function Keys (أدوات المساعدة)

66. Which function key toggles "Ortho Mode" (Straight lines only)? A. F1 B. F3 C. F8 D. F10 **Answer: Option C**

67. "Ortho Mode" restricts cursor movement to: A. 45 degrees B. Horizontal and Vertical only C. Any angle D. Circular movement **Answer: Option B**

68. Which key toggles "Object Snap" (Osnap) on/off? A. F3 B. F5 C. F7 D. F9 **Answer: Option A**

69. What does "Grid" (F7) do? A. Snaps the cursor to points B. Displays a graph paper pattern background C. Draws lines automatically D. Turns on the command line **Answer: Option B**

70. "Snap Mode" (F9) forces the cursor to: A. Move smoothly B. Jump to specific intervals (grid points) C. Move in circles D. Stop moving **Answer: Option B**

71. Which Object Snap point creates a square symbol? A. Midpoint B. Endpoint C. Center D. Intersection **Answer: Option B**

72. Which Object Snap point creates a triangle symbol? A. Midpoint B. Endpoint C. Quadrant D. Node **Answer: Option A**

73. To snap to the center of a circle, you need: A. Intersection Snap B. Center Snap C. Midpoint Snap D. Tangent Snap **Answer: Option B**

74. "Polar Tracking" (F10) is used to: A. Draw only vertical lines B. Track specific angles (like 30, 45, 60) C. Turn off the mouse D. Draw circles **Answer: Option B**

75. "Object Snap Tracking" (F11) allows you to: A. Track alignment paths from snap points B. Draw faster C. Delete objects D. Zoom automatically **Answer: Option A**

76. Which snap point is used to touch a circle at one point without crossing it? A. Center B. Quadrant C. Tangent D. Geometric Center **Answer: Option C**

77. The "Quadrant" snap point captures: A. The center of the circle B. The 0, 90, 180, and 270 degree points on a circle C. Any point on the circle D. The intersection **Answer: Option B**

78. To select a specific Object Snap for one click only (override), you can: A. Press Shift + Right Click B. Press Ctrl + Alt C. Press F1 D. Press Esc **Answer: Option A**

79. Dynamic Input (F12) displays: A. Input boxes near the cursor B. The command line only C. The help menu D. The ribbon **Answer: Option A**

80. Which snap point finds the intersection of two lines? A. Endpoint B. Intersection C. Perpendicular D. Parallel **Answer: Option B**

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Part 7: Selection & Viewing (التحديد والعرض)

81. Clicking and dragging from Left to Right creates a: A. Crossing Selection (Green) B. Window Selection (Blue) C. Lasso Selection D. Fence Selection **Answer: Option B**

82. Clicking and dragging from Right to Left creates a: A. Crossing Selection (Green) B. Window Selection (Blue) C. Chain Selection D. Single Selection **Answer: Option A**

83. A "Window Selection" (Blue) selects objects that are: A. Completely inside the window B. Touching the window border C. Outside the window D. Partially inside **Answer: Option A**

84. A "Crossing Selection" (Green) selects objects that are: A. Only completely inside B. Touched by or inside the window C. Only outside D. Only text **Answer: Option B**

85. To deselect an object from a selection set, hold: A. Ctrl B. Shift C. Alt D. Tab **Answer: Option B**

86. "Zoom Extents" does what? A. Zooms in to the last object B. Zooms to show all drawn objects on the screen C. Zooms out to infinity D. Deletes the drawing **Answer: Option B**

87. "Zoom Window" allows you to: A. Zoom into a specific rectangular area you define B. Zoom to the previous view C. Zoom to the limits D. Zoom real-time **Answer: Option A**

88. "Regen" (RE) command is used to: A. Delete the file B. Regenerate the drawing and smooth out circles C. Close the program D. Create a new file **Answer: Option B**

89. To select all objects in the drawing, press: A. Ctrl + A B. Ctrl + S C. Ctrl + C D. Ctrl + V **Answer: Option A**

90. The mouse wheel button (Middle Button) when held down acts as: A. Zoom B. Pan C. Rotate D. Select **Answer: Option B**

Part 8: Layers & Properties (الطبقات والخصائص)

91. Layers are used to: A. Organize and manage drawing information B. Delete objects C. Create 3D models only D. Write text only **Answer: Option A**

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92. To turn off a layer so it is not visible, you click on the: A. Lock icon B. Light bulb icon C. Color box D. Printer icon **Answer: Option B**

93. If a layer is "Locked" (Padlock icon), you: A. Cannot see it B. Cannot edit or delete objects on it C. Cannot print it D. Cannot change its color **Answer: Option B**

94. "Linetype" determines: A. The color of the line B. The thickness of the line C. The pattern of the line (Solid, Dashed, etc.) D. The length of the line **Answer: Option C**

95. To change the thickness of a line, you modify its: A. Lineweight B. Linetype C. Transparency D. Area **Answer: Option A**

96. Which command opens the Layer Properties Manager? A. LA (LAYER) B. LP C. LM D. LY **Answer: Option A**

97. It is recommended to draw objects on: A. Layer 0 only B. The Defpoints layer C. Specific layers (e.g., Walls, Centerlines) D. No layer **Answer: Option C**

98. To transfer properties (Color, Layer) from one object to another, use: A. Copy B. Match Properties (MA) C. Mirror D. Move **Answer: Option B**

99. The "ByLayer" setting means: A. The object takes the properties of its layer B. The object has a specific color overridden C. The object is invisible D. The object is locked **Answer: Option A**

100. To set the drawing units (mm, inches), use command: A. UNITS (UN) B. LIMITS C. SCALE D. DIMENSION **Answer: Option A**