



UNIVERSITY OF MINES AND TECHNOLOGY, TARKWA
FIRST SEMESTER EXAMINATIONS, NOV. – DEC. 2018

COURSE NO: EL 271

COURSE NAME: COMPUTER GRAPHICS

CLASS: EL II

TIME: 2 HOURS

Name: _____ Index Number: _____

SECTION B: THEORY

Answer All Questions: Circle the Letter that Bears the Correct Answer Where Appropriate

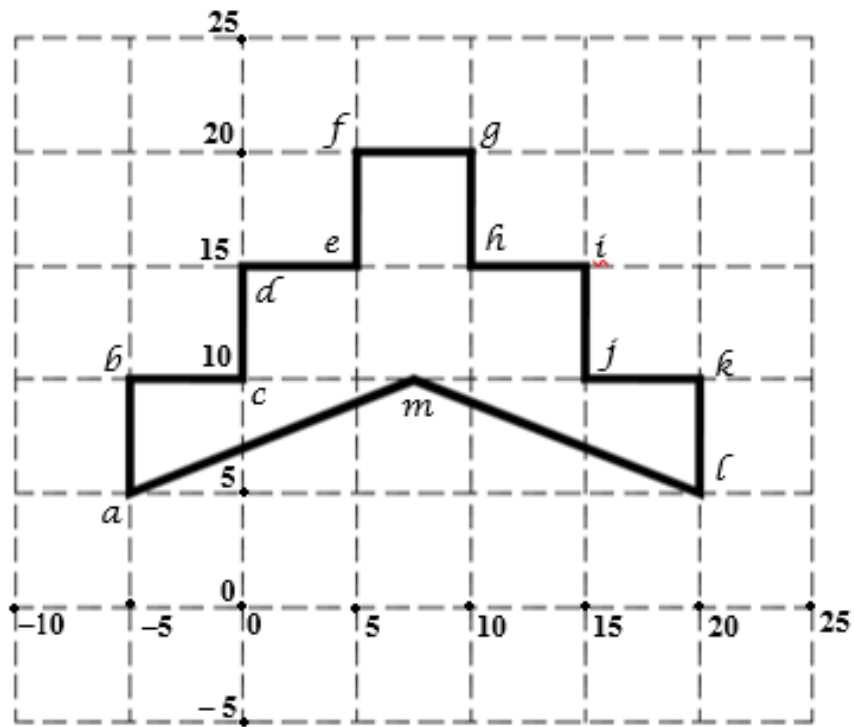
1. What is the file extension for an AutoCAD template file?
a. DWT b. DWG c. TEM d. DWF
2. Which object doesn't have an endpoint?
a. Rectangle b. Line c. Arc d. Circle
3. How many snap points does a circle have?
a. 2 b. 3 c. 4 d. 5
4. Which Osnap is indicated by a diamond?
a. Endpoint b. Centre c. Quadrant d. Tangent
5. Which key do you press to cycle through the Osnaps in an area?
a. Control b. Space c. Alt d. Tab
6. Which linetype has the longest lines and breaks?
a. Hidden c. Hidden X2
b. Hidden 2 d. They are all the same
7. Which linetype is available when you start a new drawing?
a. Solid b. Hidden c. Straight d. Continuous
8. Which objects don't have grips?
a. Lines c. Xrefs
b. Blocks d. All objects have grips
9. How many grips does a circle have?
a. 2 b. 3 c. 4 d. 5
10. How do you cycle through options when a grip is active?
a. Control b. Alt c. Space d. Tab
11. With default settings, what is the color of a 'hot' grip?
a. Red b. Green c. Blue d. Yellow

12. How many points can you pick with the Distance command?
 a. 1 b. 2 c. 3 d. 4
13. To see a list of all system variables, you type:
 a. SYSVAR b. SETVAR c. SEEVAR d. GETVAR
14. Is isometric drawing true 3-D drawing?
 a. Never c. Always
 b. Only in AutoCAD 2004 d. Only after you press "F4"
15. To switch isoplanes, you press:
 a. "F3" b. "F4" c. "F5" d. "F6"
16. Which command do you use to draw a circle in isometric drafting?
 a. The Ellipse command c. The Arc command
 b. The circle command d. Polyline Arc and Mirror command
17. Does the screen grid look the same in isometric mode as is regular drawing mode?
 a. Yes c. Only when you press "F5"
 b. No d. Isometric mode has no grid
18. How commands are needed for line thickness?
 a. 2 b. 3 c. 5 d. You only change the object's properties
19. Wireframes are just like isometric drawing
 a. Yes c. They can be
 b. No d. Only when in SW isometric view
20. To rotate an object in 3-D plane, you use the command.
 a. Rotate b. 3Drotate c. Rotate3D d. Revolve
21. When using the Subtract command, which object do you select first?
 a. The object to subtract from c. You select everything at once
 b. The object to subtract d. The largest one
22. What shape best describes a Torus?
 a. helix b. spiral c. donut d. black hole
23. How many sides does a Wedge have?
 a. 4 c. 6
 b. 5 d. Depends on view mode
24. Can different polylines be joined together?
 a. Yes c. Only if they have arcs
 b. No d. Not if they have arcs

25. What command allows you to edit a polyline?
- a. Pedit
 - b. Pedit
 - c. Cannot edit when drawn
 - d. Editpoly
26. If you hatch an area and cannot see it clearly...
- a. You must start over
 - b. AutoCAD is locked up
 - c. You used the wrong colour
 - d. The scale may be wrong
27. From which direction does AutoCAD start measuring angles?
- a. 12 o'clock
 - b. 3 o'clock
 - c. 6 o'clock
 - d. 9 o'clock
28. What does WCS stand for?
- a. Western CAD System
 - b. Worldwide Coordinate Sectors
 - c. World Coordinate System
 - d. Wrong CAD Settings
29. Polar coordinates are used mostly for drawing...?
- a. Circles
 - b. Arcs
 - c. Vertical lines
 - d. Angled lines
30. Can a polyline be left open?
- a. Never
 - b. Sometimes
 - c. Always
 - d. Only if it has an arc
31. When using the TRIM command, which do you select first?
- a. The cutting edges
 - b. The object to be trimmed
 - c. Everything
 - d. Nothing
32. How many snap points does an object have?
- a. One
 - b. Two
 - c. Depends upon the object
 - d. At least four
33. If the hatch doesn't work at all, it possibly means ...
- a. You used the wrong colour
 - b. The scale was wrong
 - c. There's an opening in the selected area
 - d. You selected wrong area
34. How many AutoCAD objects are in a rectangle?
- a. None
 - b. One
 - c. Four
 - d. Eight
35. If you draw a line at 270 degrees, it will point ...?
- a. Up
 - b. Down
 - c. Left
 - d. Right
36. How should you select objects when using the stretch command?
- a. With a crossing window
 - b. Pick them one by one
 - c. Hold the shift key while selecting
 - d. Type 'S'
37. The distances of a chamfer are:

- a. Always different
 - b. Always the same
 - c. Sometimes different
 - d. Never the same
38. You should use Osnaps when you dimension ...
- a. Never
 - b. Always
 - c. Only on lines
 - d. Only on arcs and circles
39. How many layers should a drawing have?
- a. One
 - b. Ten
 - c. One for each object
 - d. As many as are needed to clearly display the objects
40. Entering $(/ (* - 50 40.0) (+ 15 35))$ at the command prompt returns the value
- a. -2000
 - b. -400
 - c. -40
 - d. -2040

Preamble for questions 41 to 50: Fill the Table below with the appropriate coordinates.



Question Number	Given Vertex	Coordinate Type	Coordinate to Obtain Given Vertex Using Coordinate Type
41.	b	Polar	
	c		
42.	d		
	e		
43.	f	Absolute	
	g		
44.	h		
	i		
45.	j	Relative	
	k		
46.	l		
	m		

47. Calculate the magnitude of 'a' to 'm'

48. Calculate the distance of the slant line joining 'h' to 'j'.

49. What will be the angle of the slant line in question 48.

50. If the object is selected, how many square grips will there be?

Preamble for Questions 51 to 52: List 4 Commands and their respective Aliases. Eg. Circle = C

51. i. _____ ii. _____

52. iii. _____ iv. _____

53. Mention 2 areas of applications of computer graphics

54. How can you obtain a picture from a PDF that has restrictions of no copying and no printing

Preamble for Questions 55 to 56: Mention 4 examples of System Variables

55. i. _____ ii. _____

56. iii. _____ iv. _____

Preamble for Questions 57 to 58: Mention 4 short-cut key combinations used in MS Word

57. i. _____ ii. _____

58. iii. _____ iv. _____

59. State how you have benefited or otherwise from this course; EL 271 - Computer Graphics

60. Aside AutoCAD or any CAD software, mention 3 software that could be used for drawing and processing graphics including electrical circuit diagrams.

Examiner: *Dr J.K. Annan / F. Mumuni*