



CAD TAP - Copy - Question on Computer Aided Design

Computer Aided Design - Continuous Assessment

Information Technology (Jomo Kenyatta University of Agriculture and Technology)



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BSC INFORMATION TECHNOLOGY
YEAR 3 SEM 1
BIT 2111: COMPUTER AIDED AND ART DESIGN
TAP

1. Describe the following
 - a. Wireframe model
 - b. Surface models
 - c. Solid models
2. Describe the various commands used in drawing a circle
3. What does the term NURBS stand for and what is its purpose?
4. Explain the commands for doing the following
 - i) Restricts cursor movement to specified intervals
 - ii) Move the current display in the current viewport
 - iii) Switches to paper space
 - iv) Restrict cursor movement to vertical or horizontal
 - v) Control the display of marker BLIBS
 - vi) Display grids
 - vii) Refreshes the display in the current viewport
 - viii) Sets and controls the drawing boundaries and display grid
5. Discuss the importance of guidelines in computer aided design. Your discussion should consider factors such as user population, cognitive load, errors, consistency and clarity.
6. Discuss the various options in the shademode command
7. Describe the different types of modelling concepts used in CAD systems
8. Describe how blocks are used to enhance productivity of designers
9. Describe how arcs are created in autocad and how they are used in designing
10. Describe how you can create the following
 - i) PLINE
 - ii) SPLINE
 - iii) DONUTS
11. Discuss the different methods used in drawing a circle
12. Describe how the following are achieved in autocad
 - a. isometric drawing
 - b. hatching - filling areas
 - c. working in 3 dimensions
 - d. viewing 3-D objects
 - e. basic wireframe models
 - f. revolved objects
 - g. adding materials
 - h. primitive solids
13. Explain these methods
 - a. Interactive method
 - b. Absolute coordinates
 - c. Relative rectangular coordinates
 - d. Relative polar coordinates
 - e. Direct Distance entry technique.
14. Describe the options of OSNAP feature