

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI
SCHOOL OF ENVIRONMENTAL TECHNOLOGY
DEPARTMENT OF ARCHITECTURE
2013/2014 RAIN SEMESTER EXAMINATION

COURSE TITLE : COMPUTER APPLICATION TO ARCHITECTURE

COURSE CODE: ARC. 214

TIME ALLOWED : 2 HOURS

DATE : 27TH SEPTEMBER, 2014.

INSTRUCTION: ANSWER ALL QUESTIONS IN SECTION A & ANY THREE QUESTIONS IN SECTION B.
SECTION A

1. Which of these is correct

- a) Bitmap Patterns are faster to display but cannot be scaled, zoomed or rotated.
- b) Vectorial patterns are slower to display but can neither be scaled, zoomed and rotated.
- c) Bitmap Patterns are slower to display but cannot be scaled, zoomed or rotated.

2. Which of these is not correct

- a) The ArchiCAD workplace is in no way similar to conventional design and drafting environments.
- b) In many respects, the ArchiCAD workplace is similar to conventional design and drafting environments.
- c) ArchiCAD begins where your drafting table leaves off.

3. Once you have started ArchiCAD program you will see the ArchiCAD Workplace on your screen, complete with which of the following;

- a) Virtual Building worksheet, Menubar, Floating Palettes, and Floor Plan palettes
- b) model worksheet, Menubar, Floating Palettes, and other Windows display
- c) Floor Plan worksheet, Menubar, Floating Palettes, and other Windows display

4. List four 3D modeling CAD soft ware;

- a)
- b)
- c)
- d)

5. List five Architectural CAD soft ware;

- a)
- b)
- c)
- d)
- e)
- f)

6) The center of the ArchiCAD workplace is;

- a) the Floor Plan worksheet. b) the 3D Window worksheet. c) interactive drawing process between the Floor Plan and 3D Window.

7) Using the Section/Elevation Tool in the Toolbox of ArchiCAD, you can generate;

- a) 3D drawings. b) any number of sections or elevations. d) any number of plans.

8) The Section/Elevation Window is interactively linked to;

- a) the Floor Plan alone. b) both the Floor Plan and 3D Windows. c) all the other windows

9) **List three things the arrow tool can perform in CAD**

- a) b) c)

10) **In ArchiCAD the Toolbox is divided into;**

- a) four basic parts. b) three basic parts. c) five basic parts. d) six basic parts

11) **Which of these is not among tool box basic parts in above**

- a) Selection Tools, b) 3D Tools, c) Notation Tools, d) navigation Tool

12) **To access the tools default setting in CAD, we click on;**

- a) tools dialog. b) tools manager. c) tools icon

13) **The Info Box displays the different;**

- a) tool icons b) tool parameters c) tool downloads

14) **In ArchiCAD the Coordinate Box shows you;**

- a) the precise location of the ArchiCAD coordinate box b) the precise location of the ArchiCAD Cursor c) the precise location of the ArchiCAD 2D and 3D windows

15) **In CAD tools libraries are located in;**

- a) library tools parametric b) tools default setting c) library data base

16) **To review the Object Library and how it is organized, double-click;**

- a) Tool in tool box and then tool coordinate. b) tool setting dialogue and tool in tool box. c) tool in tool box and tool setting dialogue

17) **To review libraries loaded from the plan windows;**

- a) open Library Manager from the File Menu b) open object Manager from the File Menu c) open Library Manager from the library Menu

18) **The 3D Window gives you instant feedback on**

- a) the construction operations performed only in 3D view window, b) the construction operations performed 2D view window, c) the construction operations performed in other view

19) **The Floor Plan in CAD worksheet can allows us to ;**

- a) pan and zoom. b) obtain the best view of the work . c) view 3D instantly d) draw in 2D

20) **The 3D Window in CAD is used for;**

- a) three-dimensional transfer of the architectural project b) three-dimensional visualization of the architectural project c) three-dimensional computation of the architectural project

SECTION B

1. (a) What is a computer?
 - (b) Name four types of computers you know and explain its application.
 - (c) Computers are made up of two parts, name and explain its operation.
2. (a) The central processing unit (CPU) is the heart of the computer. Explain?
 - (b) (i) What is a virus?
 - (iii) What measure do you take to protect your computers against viruses
3. What is the different between Text and Mtext command.
4. (1) Name the components/elements of AutoCAD environment.
 - (ii) Briefly explain the components/elements of AutoCAD named above
 - (iii) In your own words, explain the following as it is applied in AutoCAD
 - (a) Text style
 - (b) Editing of Text and dimension figure
 - (c) Hatch.
5. (a) Explain how to use multi-lines to draw wall thickness on a grind lines.
 - (b) Write short note on the following
 - (i) Snap (ii) Ortho (iii)Osnap (iv) Polar