

DEPARTMENT OF BUILDING & CIVIL ENGINEERING  
DIPLOMA IN BUILDING & CIVIL ENGINEERING (DBCE)  
EBC 2103: COMPUTER AIDED DRAWING & DESIGN  
END SEMESTER EXAMINATION  
SERIES: AUGUST 2019  
TIME: 2 HRS

INSTRUCTIONS TO CANDIDATES:

You should have the following for this examination

- Answer booklet
- Laptop or desktop computer

This paper consists of FIVE questions. Attempt any THREE questions

Maximum marks for each part of a question are shown

This paper consists of THREE printed pages

#### QUESTION ONE

Create layers and Redraw the One bedroom rental unit shown in Figure 1 complete with a title block, plot it in PDF and save on the desktop.

**(20 marks)**

#### QUESTION TWO

- a) Describe how to: **Circumscribe** a polygon using a circle with radius of 100mm.
- b) Define **Layers**. Briefly describe how to create layers using the most basic layer properties

**(20 marks)**

#### QUESTION THREE

Using line illustration, describe how to:

- a. Trim intersecting lines
- b. Draw tangents using OSNAP tangent
- c. Fillet @ radius 100
- d. Extend one line to another
- e. Mirror an object to the side of another

**(20 marks)**

#### QUESTION FOUR

Describe:

- I. Polar co-ordinates
- II. Absolute co-ordinates
- III. Relative co-ordinates

**(20 marks)**

#### QUESTION FIVE

Create layers, Design and draw the foundation plan for Figure 1 complete with a title block, plot it in PDF and save on the desktop.

**(20 marks)**