

**Faculty of Engineering & Technology**  
**Department of Building & Civil Engineering**  
**UNIVERSITY EXAMINATION FOR DIPLOMA IN:**  
**DIPLOMA IN CIVIL ENGINEERING**

**DBCE/Sept 2015/S-FT**

**DBCE/May 2014/M-FT**

**EBC 2103 COMPUTER AIDED DESIGN & DRAWING**

**END OF SEMESTER EXAMINATION**

**SERIES: MAY 2016**

**TIME ALLOWED: 2 HOURS**

**Instruction to Candidates:**

*You should have the following for this examination;*

*- Answer booklet*

*This paper consists of FIVE questions. Answer ANY THREE questions.*

*Use neat, large and well labelled diagrams where required*

*Maximum marks for each part of a question are as shown*

*This paper consists of THREE printed papers*

#### QUESTION ONE

Having two lines jointed at end points, describe how to fillet, given the radius R-600m

Define layers and give its uses in AutoCAD and briefly describe how to set line weight

#### QUESTION TWO

Describe the procedures below as used in CAD:

- a. Set line weight
- b. Set line type
- c. Set layer color
- d. Dimension continuously
- e. Create a new layer(s)

**(20 marks)**

#### QUESTION THREE

Briefly describe **five** computer aided design methods

Give four Advantages and disadvantages of using CAD in producing engineering drawings **(20 marks)**

#### QUESTION FOUR

Describe the coordinate entries below and give an example of how to enter points for each coordinate system:

- I. Absolute points
- II. Relative points
- III. Absolute co-ordinates
- IV. Polar co-ordinates
- V. Relative co-ordinates

**(20 marks)**

#### QUESTION FIVE

Draw and design a detailed section through a foundations Strip Footing