

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