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University Examinations 2013/2014

FIRST YEAR, SECOND SEMESTER EXAMINATION FOR THE DEGREE IN BACHELOR
OF SCIENCE IN INFORMATION TECHNOLOGY

BIT 2111– COMPUTER AIDED ART AND DESIGN

DATE: APRIL 2014

TIME: 2HOURS

INSTRUCTIONS: *Answer section one and any other two questions in section two*

QUESTION ONE – 30 MARKS

- (a) Define Computer Aided Design. (2marks)
- (b) Differentiate between raster based graphics and vector based graphics (8 marks)
- (c) Differentiate between CAD and CAM. (6 marks)
- (d) Give three examples of CAD software. (3 marks)
- (e) Define AutoCAD (2 marks)
- (f) Discuss the coordinate system in AutoCAD (9 marks)

QUESTION TWO –20 MARKS

- (a) Discuss the advantages of CAD software to designers. (6 marks)
- (b) In computer art, differentiate the two major color models. (6 marks)
- (c) Differentiate different unit systems in AutoCAD. (4 marks)
- (d) How do you annotate your work in AutoCAD? (4 marks)

QUESTION THREE – 20MARKS

- (a) Discuss the history of CAD software since 1960's. (6 marks)
- (b) Describe the process of drawing the following AutoCAD design using the appropriate command and how you rotate an object in AutoCAD. (8 marks)

- (c) Discuss three ways we draw a line with the line command. (6 marks)

QUESTION FOUR – 20MARKS

- (a) Discuss the specialized CAD input devices. (6 marks)
- (b) How do you define a drawing limit in AutoCAD, use the following diagram (2 marks)

(c) Discuss three different ways you can draw an ellipse in AutoCAD. (6 marks)

(d) Discuss the following terms in AutoCAD.

i. Snap (2 marks)

ii. Ortho mode (2 marks)

iii. Polar tracking (2 marks)

QUESTION FIVE

a) Differentiate between mainframe and workstation CAD platforms. (6 marks)

b) How do you set the 'Grid on'. (6 marks)

c) Describe the process of drawing the following AutoCAD design using the appropriate commands. (8 marks)