



**KENYATTA UNIVERSITY**  
**UNIVERSITY EXAMINATIONS 2009/2010**  
**INSTITUTE OF OPEN LEARNING EXAMINATION FOR THE DEGREE OF**  
**BACHELOR OF SCIENCE**

**SET 355: COMPUTER AIDED DESIGN**

**DATE:** Wednesday 21<sup>st</sup> July, 2010

**TIME:** 2.00 p.m. – 4.00 p.m.

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**INSTRUCTIONS**

*Answer any 3 group of questions .each carries 20 marks. Each sub-question carries 4 marks*

- Q1. (a) Define the three types of Boolean operators and with sketches show how they can be used to modify solids in CAD. (4 marks)
- (b) Show how you can derive the same final object using different Boolean operators or combinations with other operations. (4 marks)
- (c) What are the types of arrays used, what commands are required for each of them. (4 marks)
- (d) Describe any four types of primitives (4 marks)
- (e) Distinguish between, solid and surface attributes (4 marks)
- Q2. Describe how to
- (a) create a new layer
- (b) find enquiry distance
- (c) draw lines
- (d) draw a polyline with straight segments
- (e) draw a line and arc combination polyline
- Q3. Describe how to
- (a) draw a circumscribed polygon
- (b) draw a polygon by specifying one edge

- (c) draw an arc by specifying three points
- (d) draw an arc using a start point, a center point, and an endpoint
- (e) define regions

Q4. Describe

- (a) WHAT IS 3D MODELLING
- (b) How to create a solid box
- (c) How To create a solid cone with a circular base
- (d) How to create a solid cone with the height and orientation specified by the axis endpoint
- (e) How to create a solid cylinder with a circular base

Q5. Describe how to

- (a) create a solid cylinder with the height and orientation specified by the axis endpoint
- (b) link objects in a drawing
- (c) create a table
- (d) Dimension
- (e) place text within extension lines

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