



THE MOMBASA POLYTECHNIC UNIVERSITY COLLEGE

Faculty of Engineering and Technology

DEPARTMENT OF BUILDING AND CIVIL ENGINEERING

HIGHER DIPLOMA IN BUILDING

COMPUTER AIDED DESIGN

SEMESTER 1 EXAMINATION

SERIES: APRIL/MAY 2010

TIME: 2 HOURS

Instructions to candidates:

This paper consists of **FIVE** questions. Answer question **ONE** from section **A** and any other **TWO** questions from section **B**.

Question ONE (Compulsory)

a)	Expla	in two benefits of CAD.	(8marks)		
b)	Define	e the following terms as used in AutoCAD:			
	i)	Menu bar			
	ii)	Status bar			
	iii)	Screen menu			
	iv)	Drawing area			
	v)	Command line	(10marks)		
c)	Expla	in the following draw commands as used in AutoCAD:			
	i)	Line command			
	ii)	Polyline command			
	iii)	Rectangle command			
	iv)	Donut command			
	v)	Arc command	(10marks)		
d)	State	methods used to draw the following shapes			
	i.	Polygon			
	ii.	Circle	(2marks)		
Question TWO					
With the aid of a diagram, explain the following types of co-ordinates as					
used in AutoCAD drawing:					
i.	Ca	rtesian			
ii.	Po	lar			
iii.	Ab	osolute co-ordinates			

iv. Relative Co-ordinates

Question THREE

(2marks)
18marks)
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(20marks)

Question FOUR

- a) Explain the function of the following:
 - i. Drawing Grid
 - ii. Ortho mode
 - iii. Snap mode
 - iv. Polar tracking (12marks)
- b) With the aid of diagrams, differentiate between a standard orthogonal grid and isometric grid. (8marks)

Question FIVE

a)) Explain the function keys given below:				
	F7,F8, F9 and F10				
b)	b) State the steps required to accomplish the following task:				
	i)	Copy an object			
	ii)	Move an object			
	iii)	Mirror an object			
	iv)	Erase an object	(12marks)		





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HDB09

AUTO CAD

SEMESTER 1 EXAMINATION APRIL/MAY 2010

TIME: 2 HOURS

Instructions

Answer question **ONE** from section A and any other **TWO** questions from section B.

Question ONE

a) State any latest versions of AutoCAD. (2marks)
b) Explain two benefits of CAD. (8marks)
c) With the aid of a diagram, explain the following types of co-ordinates used in Auto CAD drawing:

Absolute co-ordinates

(20marks)

(10marks)

(10marks)

- ii. Polar
- iii. Cartesian
- iv. Relative co-ordinates

Question TWO

- a) Define the following terms:
 - i. Menu bar
 - ii. Status bar
 - iii. Screen menu
 - iv. Drawing area
 - v. Command line
- b) Explain the following draw commands:
 - i. Line command
 - ii. Spline command
 - iii. Rectangle command
 - iv. Circle command
 - v. Arc command

Question THREE

- a) State methods used to draw the following shapes
 - i. Ellipse

ii. Donut

b) From the point (1,1), completer the diagram using the dimensions given below:
(4.1,1),(4.5,2.2),@2.3,0),@1.4<30),(@0,2.1),@1.6<120),(@-1.3,0),
(@0,-1.4), (@2.2<135), (@-1,0), (@1.5<225),(@-1,0),(@2.3<-60),(1,1)

Question FOUR

With the aid of a diagram, explain the following types of co-ordinates used in AutoCAD drawing:

- i. Cartesian
- ii. Polar
- iii. Absolute co-ordinates
- iv. Relative co-ordinates

Question FIVE

- a) Explain the function of the following:
 - i. Drawing Grid
 - ii. Ortho mode
 - iii. Snap Mode
 - iv. Polar tracking (12marks)
- b) With the aid of diagrams, differentiate between a standard orthogonal grid and isometric grid. (8marks)

(2marks)

(20marks)