

TECHNICAL UNIVERSITY OF MOMBASA

Faculty of Engineering & Technology

DEPARTMENT OF BUILDING & CIVIL ENGINEERING

HIGHER DIPLOMA IN BUILDING & CIVIL ENGINEERING (HDBC 12J)

EBC 3206: COMPUTER AIDED DESIGN II

SPECIAL/SPECIAL EXAMINATION
SERIES: JUNE 2013
TIME ALLOWED: 2 HOURS

Instructions to Candidates:

You should have the following for this examination

- Answer Booklet
- Computer Installed with AutoCAD

Ar Ma Th	as paper consists of FIVE questions. Asswer any THREE questions Assimum marks for each part of a question are as shown as paper consists of FOUR printed pages Assertion One	
a)	Differentiate between 2-D and 3-D concepts of creating engineering drawings.	(5 marks)
	Briefly explain the following 3-D CAD terminologies: (i) Boolean operations (ii) Wire frame model (iii) Rendering (iv) Extrude Briefly explain the 'isoplane' command	(12 marks) (3 marks)
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Qι	estion Two	
	gure 1 below shows a single line sketch floor plan of a proposed residential building. the building, excluding the roof.	Draw a 3-D view
th	e outline line of a roof to a proposed house.	
Dr	aw a pitched-hip ended roof to the house.	(20 marks)

Question Three	
Figure 2 shows orthographic views of a bracket.	
Draw a 3-D view of the bracket.	(20 marks)
Question Four	
Figure 3 shows an outline of an object being designed.	

Draw the outline and revolve the same through one complete revolution. Name the result	ing object. (20 marks)
Question Five	
Figure 4 below shows orthographic views of an object.	
Draw a 3-D view of the object.	(00 1)
	(20 marks)