

BIT 2111 Computer Aided Design JAN 2021

computer science (Jomo Kenyatta University of Agriculture and Technology)



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JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY University Examinations 2020/2021

YEAR III SEMESTER I EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

BIT 2111: COMPUTER AIDED ART AND DESIGN

DATE: JA	UARY, 2021	TIME: 2 HOURS	1,11,19
INSTRUCT	ONS: Answer Question ONE a	and Any Other TWO Questions.	
uestion One			
a) Outline the	features of AutoCAD		5 mark
b) Explain th	different ways of starting a drawing		4 mark
c) Elaborate	n the different parts of the AutoCAD	window	5 mark
d) Explain br	efly the following commands		8 mark
i) QSEL	CT		
ii) REDO			
iii) WPOI	YGON		
iv) LAST			
e) Write dow	the purpose of the following commar	nds	4 marl
i) MIRR	DR3D		
ii) ALIG	And the design of the second second	ARTHUR STREET, THE SALES OF THE SALES	
iii) ROTA	TE .		
iv) COPY			
	e between the following terms		4 marl
i) Stretcl			
ii) Lengtl			
iii) Chami			
iv) Filleti			
estion two			
The state of the s	mmands that you will use to carry out	the following tasks	4 marl
	g 2D polylines		
	g a quadratic or cubic spline curves		
	g semicircles and curves		
	acting a closed polyline composed of v	vide arc segments	
	features of blips		3 marl
	erm block and state two operations ca	rried out on blocks	3 marl
	advantages of using blocks		4 marl
e) Describe t	e concept of hatching		6 marl
estion Three			
a) Explain th	usefulness of the following tools		6 mark
i) VPOR	S		
ii) DVIE			
iii) CHAN	GE		
	the two main uses of meshes		4 mark
) D'	1		

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6 marks

c) Distinguish between a wireframe model and a surface

d) State the commands you would use to create the following 4 marks i) Solid cylinder with a circular base ii) Solid sphere based on a center point iii) Ring shaped solid similar to inner tube of a tire iv) Solids by extruding selected objects **Ouestion Four** a) Expound on the following commands 8 marks i) UNION ii) SUBSTRACT iii) INTERSECT iv) SHADEMODE 5 marks b) Outline the features of dimensioning provided by AutoCAD 3 marks c) State the commands used to carry out the following text operations i) Modifying the characteristics of the font such as height and width factor ii) Creating multiline text iii) Specifying font height d) Explain the purpose of the following elements 4 marks i) Crosshairs ii) Status bar iii) UCS icon iv) Metric Question five a) Differentiate between the following commands 4 marks i) TRIM ii) BREAK iii) OOPS iv) U 6 marks b) Explain the different types of coordinate systems used by AutoCAD 6 marks c) Differentiate the following terms i) REGEN and REDRAW ii) MSPACE and PSPACE iii) GRID and SNAP 4 marks d) Discuss any four applications of CAD