

## Ics 2311-computer graphics-TAKE AWAY CAT ONE

Mathematics and computer science (Taita Taveta University)



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## ICS 2311: Computer Graphics Instructions: Answer All the Questions in This Paper

a)	Explain what is meant by a transformation matrix and describe the three sets openGL for performing various transformation operations; <4 marks>	of matrices provided by
b)	Using relevant illustrations explain what is 'matrix stack' in openGL and describe the purpose of the matrix operations; <4 marks> (i) glLoadIdentity() (ii) glMultMatrix*(M) (iii) glPushMatrix ()	
c)	Explain the effect of the following openGL commands for performing various the meaning of the arguments. <4 marks> (i) glTranslatef (0, 0, -3) (ii) glscalef(20, 0, 0, 1)	s transformations. Describe
d)	Explain the difference between; <i>clipping area</i> and <i>viewport</i> ;	<2 marks>
e)	Describe the following terms as used in computer graphics; (i) Fluorescence (ii) screen resolution (iii) color resolution	<3 marks>
f)	Using relevant diagrams, distinguish between vector displays and raster displays,	
g)	State and explain three ways in which an electron can be filtered in a CRT;	<4 marks> <6 marks>
h)	Explain why phosphor is preferred in a CRT screen;	<3 marks>