

## **NATIONAL OPEN**

## **UNIVERSITY OF**

## NIGERIA 14-16 AHMADU BELLO WAY, VICTORIA ISLAND, LAGOS SCHOOL OF SCIENCE & TECHNOLOGY JANUARY/FEBRUARY 2013 EXAMINATION

## CIT 371 - INTRODUCTION TO COMPUTER GRAPHICS AND ANIMATION

Instruction: Answer Any Five Questions

Time Allowed: 3 Hours

1a. b.	What do you understand by computer graphics? List the six major elements of a graphic system. 6 marks		4marks
c.	List four major areas of computer graphics.		4 marks
2a. b.	What do you understand by BRDF? Explain the two classes and two properties of BRDFs. 10 marks		4 marks
3a. b.	Explain the term transformations.  Outline, with an example each, the three classes of transformation 9 marks		3 marks
c.	What are homogeneous coordinates?	2 mark	(S
4a. marks	Explain the thin lens Camera Model.		5
b. c. 6 mar	Define focal length. Outline two important properties of perspective projection.	3	3 marks
5a. b. c.	What do you understand by rasterization? Explain Z-buffering and state one of its uses. Outline the three major techniques of mapping methods.		4 marks 4 marks 6 marks
6a. b	What are models? State two advantages and three disadvantages of hierarchies. 5 marks		5 marks
c.	State two applications of models.		4 marks
7a.	What do you understand by keyframing? marks		3

b. State two advantages and two disadvantages of keyframing. marks

3 marks

4

c. What is motion capture?d. Enumerate two advantag

Enumerate two advantages and two disadvantages of motion capture.

4 marks

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