**CHUKA** 



#### UNIVERSITY

#### **UNIVERSITY EXAMINATIONS**

## EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF EDUCATION ARTS

**GEOG 334: PHOTOGRAMMETRY** 

STREAMS: BED (ARTS) TIME: 2 HOURS

DAY/DATE: MONDAY 17/12/2018 8.30 A.M. – 10.30 A.M.

**INSTRUCTIONS:** 

#### **SECTION 1 (30 MARKS)**

(a)	Distinguish			
	(i)	Interior and exterior orientation	[5 marks]	
	(ii)	Stereoscopes and stereo plotting	[5 marks]	
	(iii)	Orthophotography and close range photogrammetry	[5 marks]	
	(iv)	Digital and analogue image	[5 marks]	
(b)	List 1	the applications of close range photogrammetry	[5 marks]	
(c)	List	elements of interior orientation	[5 marks]	

# SECTION II: ANSWER ANY TWO QUESTIONS QUESTION 2 (20 MARKS)

(a) Describe the relationship between photogrammetry and remote sensing using a diagram

[6

marks]

(b)	Using a diagram describe marginal information of an aerial photograph	[10 marks]		
(c)	List advantages of using a digital camera	[4 marks]		
QUESTION 3 (20 MARKS)				
(0)	Illustrate the commonants of an aerial common	[6 mortes]		

(a) Illustrate the components of an aerial camera [6 marks]
(b) Explain the requirements of photogrammetric project planning [10 marks]
(c) Using a diagram illustrate the basics of laser scanning [4 marks]

### **GEOG 334**

QUE	CSTION 4 (20 MARKS)	
(a)	List considerations that are used to classify aerial photographs	[6 marks]
(b)	Describe the difference between the laser scanning and photogrammetry	[6 marks
(c)	Outline the advantages and disadvantages of laser scanning	[8 marks
QUE	ESTION 5 (20 MARKS)	
(a)	Describe three concepts of digital image resolution	[10 marks]
(b)	Explain most common digital image formats	[5 marks
(c)	Using a diagram illustrate the geometry of tilted photographs	[5 marks