

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF ARTS

GEOG 333: MAP READING AND AERIAL PHOTO INTERPRETATION

STREAMS: B.A.

TIME: 2 HOURS

DAY/DATE: FRIDAY 13/12/2019

8.30 A.M. – 10.30 A.M.

INSTRUCTIONS:

- **Answer question ONE and any other TWO questions, at least ONE question from each section.**
- **Use illustrations where appropriate.**

1. (a) Distinguish between:
 - (i) Planimetric Maps and Hypsometric Maps. (2 marks)
 - (ii) Aerial photography and Terrestrial photography. (2 marks)
 - (iii) Metric information and Semantic information. (2 marks)
 - (iv) Rise and run on a map. (2 marks)
 - (v) Sidelap and Endlap. (2 marks)
- (b) What are the contour lines rules obeyed by every topographic map? (2 marks)
- (c) Why is it paramount to keenly study the legend each time you use a new map? (2 marks)
- (d) Discuss the methods of computing photo-scales. (6 marks)
- (e) Explains the importance of dials on a photograph. (10 marks)

2. (a) Below is excerpt of contours whose map scale is 1 inch = 500 feet. Determine the percentage slope from point A to point B (10 marks)

(b) Explain the causes and effects of relief displacements in Aerial Photographs. (10 marks)

3. Discuss the chronological development of aerial photography based on its equipment and platforms. (20 marks)

4. (a) Distinguish between bifurcation ratio and drainage density. (6 marks)

(b) State Hortons law and demonstrate its application in map analysis. (8 marks)

(c) Describe three stages involved in the study of maps. (6 marks)

5. Discuss how you can use the principles of air photo-interpretation to identify and classify major land uses in Tharaka Nithi County. (20 marks)
