



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2015/2016 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
EDUCATION (ARTS)

AGE 300: AERIAL PHOTOGRAPHY AND FIELD COURSE

DATE: 5/8/2016

TIME: 2:00 – 4:00 PM

INSTRUCTIONS.

Answer Question One and any other TWO questions.

QUESTION ONE

- a) Discuss the following terms as used in aerial photography. Use diagrams where applicable.
- | | |
|-------------------------|-----------|
| i) Photogrammetry | (2 marks) |
| ii) Sematic information | (3 marks) |
| iii) Principal point | (3 marks) |
| iv) Cluster sampling | (3 marks) |
- b) Highlight any four advantages of aerial photographs over terrestrial photography. (8 marks)
- c) What do you understand by the term 'reference level' in air photo interpretation (6 marks)
- d) Highlight the importance of stereoscopy (5 marks)

QUESTION TWO

Discuss five factors you would consider in planning a flight mission to acquire aerial photography. (20 marks)

QUESTION THREE

- a) An aerial camera with a focal length of lens of 50mm was used to shoot photographs of Katoloni village in Machakos at a height of 1000m above the ground. The altitude of the village is 1400m above sea level; calculate the photo scale of the village. (15 marks)
- b) Discuss the advantages of oblique aerial photographs over vertical air photographs. (5 marks)

QUESTION FOUR

Explain the importance of the following features in air photo interpretable in

- a) Shape (4 marks)
- b) Pattern (4 marks)
- c) Tone (4 marks)
- d) Shadow (4 marks)
- e) Texture (4 marks)

QUESTION FIVE

- a) Compare and contrast a questionnaire and interviewer guide schedule as data collection tools. (8 marks)
- b) The following title is a title of a development project “Perception and community based management initiatives of wildlife experience in Kenya.”
Derive three objectives and hypothesis/assumptions from the title. (12 marks)