



MACHAKOS UNIVERSITY

University Examinations for 2020/2021 Academic Year

SCHOOL OF HUMANITIES AND SOCIAL SCIENCES

DEPARTMENT OF SOCIAL SCIENCES

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF EDUCATION

BACHELOR OF ARTS

AGE 300: AIR PHOTO INTERPRETATION AND FIELD COURSE

DATE: 12/8/2021

TIME: 11:00 – 1:00 PM

INSTRUCTIONS:

Answer Question **One** and any other **two** Questions: At Least One question from Sections B and C

SECTION A: COMPULSORY

1. a) Explain the following terms:
 - i. Panchromatic film (2 marks)
 - ii. Aerial photography (3 marks)
 - iii. Fiducial marks (2 marks)
 - iv. Lens stereoscope (3 marks)
- b) Assume that you are a resource analyst with an environmental consultant firm. You are required to undertake an aerial mapping of Konza City and its environs. Explain the major considerations you may have to make in preparation for the exercise. (10 marks)
- c) Compare and contrast probability and non-probability sampling procedures (10 marks)

SECTION B: AIR PHOTO-INTERPRETATION

2. With suitable illustrations explain how one can use the principles of air photo-interpretation to identify and classify the major land uses in the Machakos Town (20 marks)
3.
 - (a) Define a photo-scale (3 marks)
 - (b) Explain any three methods used in computing of photo-scales (9 marks)
 - (c) Giving examples, outline the characteristics of oblique aerial photographs (8 marks)

SECTION C: FIELD-COURSE

4.
 - a) Discuss in a logical sequence the components that constitute a good research report (15 marks)
 - b) Explain the challenges associated with field trips. (5 marks)
5. Assess different tools used to collect data and highlight their limitations (20 marks)