



MACHAKOS UNIVERSITY

University Examinations 2016/2017

SCHOOL OF HUMANITIES AND SOCIAL SCIENCE

DEPARTMENT OF SOCIAL SCIENCES

FOURTH YEAR FIRST SEMESTER EXAMINATIONS FOR

BACHELOR OF EDUCATION (ARTS)

BACHELOR OF ARTS

AGE 400: REMOTE SENSING AND RESOURCE MANAGEMENT

DATE: 2/8/2017

TIME: 2:00 – 4:00 PM

INSTRUCTIONS

Answer Question One and Any Other Two Questions

1. a) Explain the following concepts:
 - i) Passive remote sensing (3 marks)
 - ii) Electromagnetic spectrum (4 marks)
 - iii) Digitizing (3 marks)
 - iv) Spatial data (4 marks)
 - v) Image transformation (2 marks)
- b) Discuss the role of remote sensing in achieving Kenya's vision 2030. (14 marks)
2. Assess different types of resolutions and explain how they affect the clarity of remotely sensed image. (20 marks)
3. a) Remote sensing has more benefits over aerial photographs. Discuss. (14 marks)
- b) Assess any three factors that influence radiation. (6 marks)
4. a) Explain the principles of digital image identification in remote sensing. (12 marks)
- b) Evaluate the relevance of G.I.S to spatial planning process. (8 marks)
5. Discuss the application of remote sensing in the management of environmental hazards. (20 marks)