



JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

**SECOND YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE**

IN LAND RESOURCE PLANNING AND MANAGEMENT: 2016/2017

ALP 2206: REMOTE SENSING I

CONTINUOUS ASSESSMENT TEST 1

Answer all Questions

Time: 1 hour

1. (a) Define the following terms as used in remote sensing
 - (i) Radiant flux
 - (ii) Reflectance
 - (iii) Instantaneous Field of view
 - (iv) Blackbody radiation
 - (v) Amplitude of a wave

- (b) With the aid of a diagram describe the wavelength ranges of the electromagnetic spectrum that are used for remote sensing?

2. (a) Classify remote sensing with respect to the wavelength regions;
(b) Describe Electromagnetic radiation in terms of the particle theory

3. (a) With the aid of a diagram describe the interaction of electromagnetic radiation with water features
(b) With the aid of a diagram describe what you understand by the term "atmospheric windows" of the EMS?