



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE

KRM 516: ENVIRONMENTAL CROP ECOPHYSIOLOGY

DATE: TUESDAY, 5TH APRIL 2011

TIME: 9.00 A.M. - 12.00 P.M.

Instructions: Answer all questions

1. Write short notes on:
 - a. Soil water potential (5 marks)
 - b. Gravitational water (5 marks)
 - c. Osmoregulation in higher plants (5 marks)
 - d. Lambert-Beer law (5 marks)
2. Describe the process of stomata opening in higher plants (20 marks)
3. Discuss the major climatic factors influencing crop water needs (20 marks)
4. Describe importance of water in plant growth and development (20 marks)
5. Explain the factors influencing water infiltration rate in a given soil (20 marks)
