



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE

(AGRICULTURE)

KDM 202: AGLO-CLIMATOLOGY

DATE: Wednesday 28th March 2012

TIME: 8.00a.m-10.00a.m

INSTRUCTIONS

Answer question ONE and any other THREE (3) questions; Duration: 2 Hours

1. (a) Write short notes on the following terms
 - (i) Weather
 - (ii) Climate change
 - (iii) Pressure Gradient Force (PGF)
 - (iv) Global energy balance
 - (v) Inter-Tropical Convergence Zone (ITCZ) (15 marks)
- (b) With relevant example, show how the agro-climatology study can promote the achievement of the vision 2030 of the government of Kenya (10 marks)
2. Briefly explain at least FIVE (5) causes of climate change (15 marks)
3. Discuss at least FIVE (5) factors that affect climate regime at a given region (15 marks)
4. Discuss EL-Nino and La-Nina phenomenon and show their impacts on crop production in Kenya (15 marks)
5. Discuss some of the national efforts that the government of Kenya is adopting to mitigate the effects of climate change on the environment (15 marks)