



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2011/2012

**SECOND SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF
SCIENCE (PLANT BREEDING)**

KST 535: UTILIZATION OF PLANT GENETIC RESOURCES

DATE: Tuesday 27th March 2012

TIME: 2.00p.m – 5.00p.m

INSTRUCTIONS

Answer any four questions; 25 MARKS

1. Domesticated plants have lost the ability to survive in the wild. Discuss.
2. Write short notes on:
 - i) “Rubbish heap hypothesis”
 - ii) “Law of homologous series (Vavilov, 1951)”
 - iii) Pre-agricultural subsistence economies
 - iv) The Founder principle
 - v) Archaeobotanical evidence of **seed agriculture** is impressive while that of **vegiculture** is a presumption. Discuss.
3. Giving example discuss the significance of plant introductions in Kenyan agriculture.
4. Discuss *in situ* and other methods for the conservation of plant genetic resources indicating when they are most appropriate.
5. Discuss the provisions of ITPGRFA.