UGANDA MARTYRS UNIVERSITY FACULTY OF AGRICULTURE

Bachelor of Science in Agriculture

Year 4 Special/Supplementary Examination: Academic Year 2014-2015

June, 2015

MODULE AG9/OA11: Commodity Improvement and Biotechnology

INSTRUCTIONS:

- Read and understand the questions before answering
- Select and answer any Four (4) Questions
- Start each answer on a separate answer sheet
- You are allowed Three (3) Hours for the examination
- a) On what justifications do scientists base their recommendation to farmers to use GMOs to address crop production problems?
 - b) What are the likely consequences of GMO pollution?
- 2. Artificial insemination (AI) deployment benefits all animal farmers and a policy should be put in place to make use of AI compulsory. What are the repercussions, advantages and disadvantages envisaged with such a policy approach?
- Describe the technical aspects that lead to seed produced by seed companies being of higher quality than that produced on-farm by farmers themselves.
- 4. Describe the variation encountered in characteristics of dairy cows and indicate which of the characteristics are also important in beef cattle. Give a detailed account of animal breeding by taking one of the domestic animals you know as an example.
- 5. What is the difficulties animal farms face today in relation to accessibility to elite animal breeds?
- 6. You are appointed Minister for MAAIF, how would you build a strong animal husbandry industry for your country?
- 7. What is Al? Give its advantages and disadvantages. What alternative breeding