



EMBU UNIVERSITY COLLEGE

(A Constituent College of the University of Nairobi)

2015/2016 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTERS OF SCIENCE
(PLANT BREEDING AND BIOTECHNOLOGY)

ACS 604: SEED SCIENCE AND TECHNOLOGY

DATE: APRIL 8, 2016

TIME: 02:00-05:00PM

INSTRUCTIONS:

Answer ANY FOUR Questions

QUESTION ONE

- a) A farmer noted very poor germination of seeds in his farm. He approaches you for advice and he expects better germination next season. What major aspects will you discuss with him? (12 Marks)
- b) Discuss the informal and formal seed sectors in Kenya. (13 Marks)

QUESTION TWO

A bean seed producing company is in the process of harvesting, threshing, drying, winnowing, sorting and labeling their product. Discuss each of these steps. (25 Marks)

QUESTION THREE

- a) Jane is a wheat farmer in Narok. She goes to a seed merchant to purchase planting materials. What factors must she put in mind before getting the seed stock? (10 Marks)
- b) Write an essay on plant breeders' rights. (15 Marks)
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QUESTION FOUR

- a) Discuss various types of seeds in Kenya and their uses. (13 Marks)
- b) The Government of Kenya regulates seed industry in several ways. Outline the biosafety protocols applicable today? (12 Marks)

QUESTION FIVE

- a) Explain factors affecting seed quality and their control mechanisms. (15 Marks)
- b) Discuss the role of the International Seed Testing Association. (10 Marks)

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