



**MURANG'A UNIVERSITY COLLEGE**  
(A Constituent College of Jomo Kenyatta University of Agriculture and Technology)

**DIPLOMA IN APPLIED BIOLOGY**

**SCHOOL OF PURE AND APPLIED SCIENCES**

**CLASS: AS/BIO/14D**  
**CODE:ASB 1211**

**COURSE**

**PLANT HUSBANDRY AND PATHOLOGY**

**END OF TERM**

**DATE: 19<sup>TH</sup> NOVEMBER 2015**

**TIME : 3HOURS NOV/DEC 2015**

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***INSTRUCTIONS TO CANDIDATES.***

This paper consists of two sections, A and B. Answer ALL questions in section A and any THREE questions from section B. Each question in A carries 4 marks while each question in section B carries 20 marks.

Instructions: Attempt all questions in section A and one questions in section B

**SECTION A (80 marks)**

1. Describe fumigation in greenhouse (4 marks)
2. Outline factors considered in greenhouse management (4 marks)
3. Describe ammonia poisoning in a green house (4 marks)
4. Define the following terms as used in plant pathology
  - a) Hypertrophy (2 mark)
  - b) Hyperplasia (2 mark)
5. Describe Witch broom in pine (*Pinus pendrerosa*) (4 marks)
6. Name leaf hopper species known to transmit root tumors (4 marks)
7. Differentiate between localized and systemic plant diseases (4 marks)
8. Describe leaf curl (4 marks)
9. Outline physiological effects of auxin as a plant hormone (4 marks)

10. Describe the following

(a) Seed dormancy

(2 mark)

(b) hypogeal germination

(2 mark)

**SECTION B( 60 MARKS)**

11. Discuss control of plant pathogens

(20 marks)

12. Discuss Clubroot of Brassicae as an abnormal growth in Plants

(20 marks)

13. Describe use of sawdust and allies as plant growing media

(10 marks)

14. (i) Discuss experimental work by FN Went in 1926 that gave rise to Avena

Coleoptiles Curvature Test

(10 marks).

(ii) Outline physiological effects of gibberellic acid plant hormone

(10marks)