

UNIVERSITY OF KABIANGA

UNIVERSITY EXAMINATION

2015/2016 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER

BOT 111: BASIC BOTANY II

TIME: 3hrs

SECTION A (28 mks)

INSTRUCTIONS: Answer ALL the questions in this section

1. Distinguish between (4mks)
 - i) Systematics and phylogenetics
 - ii) Shared character and derived character
2. Briefly describe alternation of generations in plants (5mks)
3. Summarize the classification of plants (5mks)
4. Describe the characteristics of bryophytes (5mks)
5. Describe adaptations that make vascular plants better suited for a fully terrestrial existence than are the nonvascular plants (5mks)
6. Explain the reproductive advantages seed plants have over seedless vascular plants and nonvascular plants. (4mks)

SECTION B (42mks): Answer ANY THREE questions in this section

7. Describe the effects of environmental pollution on plants (14mks)
8. Discuss plant responses to environmental stress (14mks)
9. With the aid of suitable diagrams describe placentation (14mks)
10. Summarize the characteristics of the four phyla of seedless vascular plants (14mks)