

CHUKA



UNIVERSITY

COLLEGE

UNIVERSITY EXAMINATIONS

**FIRST YEAR EXAMINATION FOR THE AWARD OF
CERTIFICATE IN ECOTOURISM AND HOSPITALITY MANAGEMENT**

CERT 0005: INTRODUCTION TO EAST AFRICAN FLORA

STREAMS: CERT (ECOTOURISM) Y1S2

TIME: 2 HOURS

DAY/DATE: THURSDAY 16/12/2010

2.30 P.M. - 4.30 P.M.

INSTRUCTIONS:

1. ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO IN SECTION B.
2. SECTION A CARRIES 30 MARKS AND SECTION B CARRIES 40 MARKS.
3. CHEATING IN EXAMS IS PROHIBITED.

SECTION A: (30 MARKS)

1. List five assumptions on which botanists base plant classification. [5 marks]
2. With the aid of a diagram, briefly explain the meaning of alternation of generation. [5 marks]
3. List five types of modified stems giving known examples in each case. [5 marks]
4. Differentiate between the following
 - (a) Cork cambium and vascular cambium [1 mark]
 - (b) Secondary phloem and primary phloem [1 mark]
 - (c) Transpiration and guttation [1 mark]
 - (d) Apical meristem and lateral meristem [1 mark]
 - (e) Epidermal cells and mesophyll cells [1 mark]

5. List and briefly explain four factors that may determine distribution of flora in East Africa giving examples in each case. [5 marks]
6. Explain the differences between the following
- (a) Structure and composition [2 marks]
 - (b) Savanna and tropical rainforest [2 marks]
 - (c) Auxilliary bud and terminal bud [1 mark]

SECTION B: (40 MARKS)

7. Discuss the structural and functional differences in monocots and dicots using illustrations where possible. [20 marks]
8. Discuss the influence of each of the following in distribution of flora in East Africa.
- (a) Altitude
 - (b) Rainfall
 - (c) Anthropogenic effects
 - (d) Aspect [20 marks]
9. Discuss the different users of plants in East Africa giving examples. [20 marks]
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