

COLLEGE

UNIVERSITY EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE IN ECOTOURISM AND HOSPITALITY MANAGEMENT, WILDLIFE ENTERPRISE & MANAGEMENT, ANIMAL SCIENCE, BACHELOR OF SCIENCE (GENERAL) & BACHELOR OF SCIENCE (AGRICULTURAL EDUCATION)

BOTA 101: GENERAL BOTANY

STREAMS: B.SC (WIEM, TOHM, AGED) Y1S1 TIME: 2 HOURS

DAY/DATE: FRIDAY 10/12/2010 2.30 P.M – 4.30 P.M.

INSTRUCTIONS:

1. ANSWER ALL QUESTIONS IN SECTION A AND ANY TWO IN SECTION B

2. EACH QUESTION IN SECTION A CARRIES 5 MARKS; EACH QUESTION IN SECTION B CARRIES 20 MARKS.

SECTION A: (30 MARKS)

1. Giving suitable examples, differentiate between the following:

(a)	Monocots and dicots	[1 mark]
(b)	Angiosperms and gymnosperms	[1 mark]
(c)	Vascular cambium and cork cambium	[1 mark]
(d)	Bryophytes and tracheophytes	[1 mark]
(e)	Apoplast and symplast	[1 mark]

2. For each of the following plant structures, explain one function they perform.

(a)	Xylem	[1 mark]
(b)	Parenchyma cells	[1 mark]
(c)	Pits	[1 mark]
(d)	Guard cells	[1 mark]

	(e)	Companion cells	[1 mark]			
3.	Give two characteristics in each of the following organisms:					
	(a) (b) (c) (d) (e)	Rhodophytes Phaephytes Chlorophytes Amoeboid protozoans Ciliated protozoans	[1 mark] [1 mark] [1 mark] [1 mark] [1 mark]			
4.	Briefly	explain the process of primary and secondary growth in a v	voody stem. [5 marks]			
5.	Explain	n the concept of embolism in plants.	[5 marks]			
6.	With a	n illustration, describe structure and characteristics of bacter	ria. [5 marks]			
SECTION B: (40 MARKS)						
7.		s the differentiation in structure and function of any four typiving known examples.	pes of plant [20 marks]			
8.	Discus	s the process of photosynthesis.	[20 marks]			
9.	Discus	s water uptake in plants.	[20 marks]			