



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

**OPEN, DISTANCE AND E-LEARNING EXAMINATION FOR THE DEGREE OF
BACHELOR OF EDUCATION AND BACHELOR OF SCIENCE**

SBT 310: PLANT BIOCHEMISTRY AND PHYSIOLOGY

DATE: Wednesday 2nd February 2011

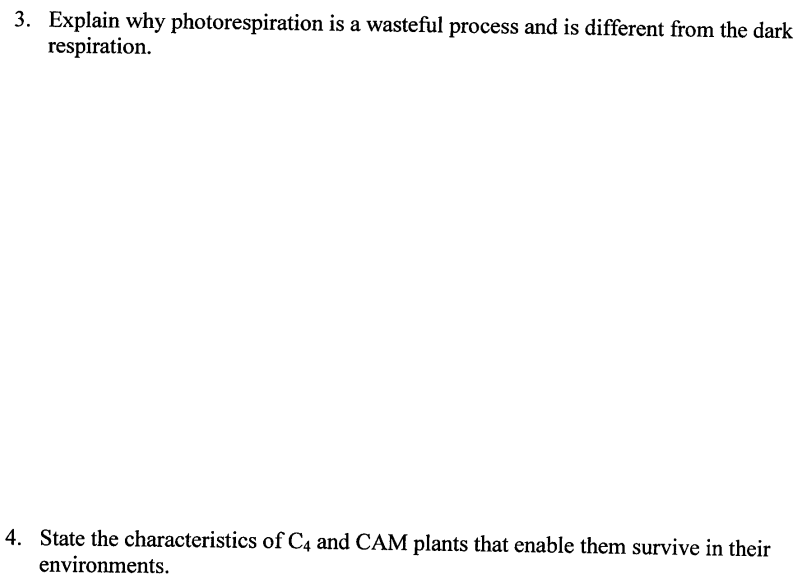
TIME: 11.00a.m -1.00p.m

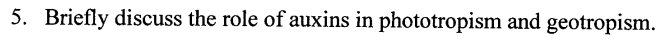
INSTRUCTIONS: *Answer all questions in Section A and any one in Section B. Answers to Section A should be written in the spaces provided on the question paper.*

SECTION A. Short Answer Questions (5 marks each).

1. Briefly discuss the role of microorganisms in the processes of the nitrogen cycle.

2. Why are vitamins and coenzymes important in plant metabolism?





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8. Briefly discuss the degradation of fatty acids through α -oxidation.

SECTION B. Essays (30 marks each).

1. Discuss the mode of action of the major plant hormones.
2. Discuss the electron transport in the light phase of photosynthesis.
3. Write an essay on the synthesis of proteins.