



**UNIVERSITY OF EMBU**

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**2017/2018 ACADEMIC YEAR**

**SECOND SEMESTER EXAMINATIONS**

**SECOND YEAR EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE  
IN PLANT ECOLOGY**

**SBT 540: PHYSIOLOGICAL PLANT ECOLOGY**

**DATE: APRIL 11, 2018**

**TIME: 2:00 -5:00 PM**

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**INSTRUCTIONS:**

**Answer ANY FOUR Questions**

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**QUESTION ONE (25 MARKS)**

Explain how photosynthesis differ between C<sub>3</sub>, C<sub>4</sub> and CAM plants.

**QUESTION TWO (25 MARKS)**

Describe nutrient cycling and budgets in plants.

**QUESTION THREE (25 MARKS)**

- a) Seed dormancy is a common phenomenon. Discuss this statement.
- b) Discuss mechanisms of breaking seed dormancy.

**QUESTION FOUR (25 MARKS)**

Explain the various mechanisms of overcoming water stress in plants.

**QUESTION FIVE (25 MARKS)**

Discuss salt stress and tolerance in halophytes.

**--END--**

