

2017/2018 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

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

SBT 537: PLANT WATER RELATIONS

DATE: APRIL 6, 2018

TIME: 2:00 - 5:00 PM

INSTRUCTIONS:

Answer ANY FOUR Questions

QUESTION ONE (25 MARKS)

Illustrate the mechanisms of ions and water transport in plants.

QUESTION TWO (25 MARKS)

Write an essay on drought philosophy in plants.

QUESTION THREE (25 MARKS)

Describe radiant energy exchange between the leaf and the environment.

QUESTION FOUR (25 MARKS)

Explain the effects of salinity on internal water deficits in plants and how plants overcome it.

QUESTION FIVE (25 MARKS)

Discuss the transpiration pull and the hydraulic capacitance in water transport.

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