

UNIVERSITY OF RUHUNA
BACHELOR OF SCIENCE (GENERAL DEGREE) LEVEL III (SEMESTER II)
EXAMINATION – January 2018

SUBJECT: BOTANY

COURSE UNIT: BOT3232
(Advanced Plant Physiology)

Time: **one hour**

Answer **two (02)** questions including question No 1.

Question No.	Marks
Q ₁	
Q ₂	
Total	

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- 1.
- a) What do you mean by the following terms?
 - i) Assimilate partitioning
 - ii) Remobilization
 - iii) Potential evapotranspiration
 - b) How partitioning of assimilates affect the harvest index of a crop.
 - c) Give four (4) parameters that you can use to analyze plant growth in a plant community.
 - d) Explain the most accepted theory for phloem translocation in higher plants.
2. Discuss the seed characters which influence the dry matter production of a crop canopy.
3. “The leaf, as the major photosynthetic organ of higher plants, is well organized to fix CO₂ efficiently.” Discuss this statement.
