

EASTERN UNIVERSITY, SRILANKA

FIRST YEAR SECOND SEMESTER EXAMINATION IN SCIENCE - 2012/2013 (Nov.2015).

BT- 102- PLANT PHYSIOLOGY

Time : 2 hours

Repeat / Re-repeat

Answer all questions



01. a) List out the Physical factors affecting transpiration of Plants. (30 marks)
b) Briefly explain the potassium ion pump mechanism of stomatal action. (70 marks)
02. Write shot notes on the following
a) Calvin cycle (45 marks)
b) Apoplast and Symplast (30 marks)
c) Phloem loading (25 marks)
03. Distinguish between the following:
a) C_3 and C_4 plants (40 marks)
b) Cyclic and Non-Cyclic electron transport (30 marks)
c) Plasmolysis and Deplasmolysis (30 marks)
04. a) Define the term "Conductive tissues" (10 marks)
b) What is capillarity? How is this phenomenon explained chemically? (40 marks)
d) What forces cause water to flow from roots to leaves within the xylem? (50 marks)