Eastern University, Sri Lanka

First year, First Semester Examination in Science -2015/2016

(July/August-2017)

BT-152 Plant Physiology (Practical)

(Proper & Repeat)

nswer all question

ec

ma

ct

ma

Time duration: 2 hours

- 1) You have been provided five graded series of sucrose solutions (0.2M, 0.4M, 0.6M, 0.8M, and 1M), *Rhoeo* leaves, light microscope and other facilities. (R =8.314J/mol K, T = 303K).
- a) Carry out suitable procedure to determine the osmotic potential of *Rhoeo* leaf cells.
- b) List out the limitations of the above experiment.

(50 min)

- 2) Identify the spot A and B.
- a) Draw fully labeled diagram of A & B.
- b) Explain the reasons for your drawings.

(20 min)

- 3) Take cross section of the leaf Specimen R.
- a) Draw the detailed diagram.
- b) Find out the Co₂ fixation mechanism of the above plant.
- c) Leave your slide for evaluation.

(20 min)

4) Identify and comment on C, D, E, F, G and H.

(30 min)
