

Eastern University, Sri Lanka
Faculty of Science

First Year First Semester Examination in Science 2016/2017 (Aug./Sep. 2018)

BT 152, Plant Physiology (Practical – Old Syllabus)

Time: 2 hours

Answer all the questions

1. You have been provided four different concentration of solutions **A, B, C** and **D**; plant tissue (**E**); and necessary materials.
 - a) Using any proper methodology, find out which solution is same as the osmotic concentration of the given plant tissue.
 - b) If the concentration of the solution that you mentioned in (a) is 0.29M, calculate the water potential of plant tissue?
 - c) Explain your results. (50 min)

2. Take cross section of the Specimen **F**.
 - a) Draw the detailed diagram.
 - b) Write down the CO₂ fixation mechanism of the above plant.
 - c) Leave your slide for evaluation. (20 min)

3. Identify and comment on **G, H, J, K, L** and **N**. (30 min)

4. Compare the following
 - a) **P** and **R**
 - b) **U** and **V** (20 min)