

EASTERN UNIVERSITY, SRI LANKA

SECOND YEAR, FIRST SEMESTER EXAMINATION IN AGRICULTURE - 2003/2004

AGB 2101 – PLANT PHYSIOLOGY

PRACTICAL EXAMINATION



Answer all questions

Time: One Hour

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1. a) Give the stepwise procedure to demonstrate the effect of chemical substances on the permeability of plant tissues.
- b) Comment on the colour changes in the tissues and the solutions and give the conclusions.
2. a) Briefly describe a method to determine the osmotic potential of *Rhoeo* epidermal cells.
- b) If the above cells show 50% plasmolysis in the 0.1M solution, calculate their osmotic potential at 27°C.
3. a) How will you extract chlorophyll a and carotene from *Gliricidia* leaves?
- b) What precautions are needed for a successful separation?

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