

Name_____

ID_____

Practical Class (Day and Time)_____ Demonstrators_____

SLE132: Prac 4, Leaf Structure and Photosynthesis

Complete the biological drawings on this worksheet and attach an assignment cover sheet to the front before submitting to your demonstrator at the end of the practical class. All biological drawings should be in pencil and answers to written questions in complete sentence format. **Total for this practical worksheet, 15 marks**

Biological drawing 1: Two cross-sections of plant tissue

Diagrams (from appropriate magnification) of each of the sections of leaves of *Coprosma repens* and *Eucalyptus* sp. Label as many of the following features as you can see: the cuticle, the upper and lower epidermis (where appropriate), palisade mesophyll, spongy mesophyll, intercellular spaces, vascular tissues, guard cells, stomatal openings. Provide a legend. (10 marks)

Question 1: In which tissue layer of the leaves are the chloroplasts located? (2 marks)

Question 2: Explain the difference in distribution of chloroplasts within the leaves between the two species. (3 marks)
