

Memo Activity 1 11 May

- 2.2 2.2.1 1 – root hair ✓
2 – epidermis ✓ (2)
- 2.2.2 (a) 5 ✓
(b) 6 ✓
(c) 7 ✓
(d) 4 ✓ (4)
- 2.2.3 • Large surface area ✓ speed up osmosis ✓
• Thin walled cells easy ✓ diffusion across membrane ✓ (Any 1 x 2) (2)
- 2.2.4 No. ✓ Function of cuticle is to reduce water loss. ✓ Root required to absorb water, therefore it will not allow this function. ✓ (3)
- 2.2.5 Since root hair increases surface area for maximum absorption, less water and minerals will be absorbed ✓ by the root and thus growth and functioning ✓ of the plant will be affected. (2)
- 2.3 2.3.1 Seeds will germinate better in sunlight than in the darkness ✓
OR
Seeds will germinate better in darkness than in sunlight ✓
OR
Seeds will germinate well whether in sunlight or darkness ✓ (2)
- 2.3.2 (a) independent variable: sunlight ✓
(b) dependent variable: amount of seeds that germinated ✓ (2)
- 2.3.3 Amount of soil, size of pots, number of seeds ✓✓
Amount of water ✓ (Any 2) (2)
- 2.3.4 Repeat the experiment ✓
Increase the sample size ✓
Put more seeds in each pot ✓ (Any 2) (2)

Memo Activity 2 11 May

- 2.1.1 Phloem ✓
The contents of phloem consist of sucrose, amino acids, plant hormones and minerals ✓ (2)
- 2.1.2 Amino acids ✓ (1)
- 2.1.3 Sucrose / amino acids ✓ (any 1)
- Mark first one only**
- 2.1.4 Potassium ions / chloride ions / magnesium ions / sodium ions ✓✓ (any 2)
- Mark first two only**
- 2.1.5 Sucrose is soluble ✓, can be transported in cell sap ✓, whereas starch is insoluble ✓, and cannot. (3)
- 2.1.6 Sink ✓ (1)
- (10)**
- 2.2.1 Epidermis ✓ (1)
- 2.2.2 Thin walled ✓
No chloroplasts ✓
Closely packed / no air spaces ✓
Single layer of cells ✓
Large vacuole ✓ (any 3)
- Mark first three only**
- 2.2.3 7 ✓ - chloroplast ✓ (2)
- 2.2.4 Plant cell has chloroplasts ✓ the animal cell has no chloroplasts ✓
Plant cell has a large vacuole ✓ the animal cell has no vacuole ✓
Plant cell has no centrioles ✓ Centrioles present in an animal cell ✓
- Mark first two only**
- (any
2X2) **(4)**