Practice Question Set For GCSE
Subject : Biology
Paper-1 Topic: B1 Cell Biology

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Name of the Student:_____
Max. Marks : 22 Marks **Time : 22 Minutes**

Mark Schemes

Q1.

(a) root

*do **not** accept root hair (cells)*

1

(b) by active transport

1

(c) translocation

1

(d) any **one** from:

- respiration

  allow to release energy

  *do **not** accept to produce / make / create energy*

  allow for growth
- (used) to produce starch
- (used) to produce fat / oil
- (used) to produce cellulose
- (used) to produce amino acids / protein

1

(e) guard cell

1

(f) to allow carbon dioxide in

1

(g) $\frac{9}{0.25}$

1

36

*do **not** accept if a unit is given allow correct calculation using*

$\frac{9}{25}$

1

(h) $\frac{37 + 36 + 30 + 32 + 35}{5}$

allow $\frac{170}{5}$

1

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1

(i) there are fewer stomata on the upper surface of the leaves

allow converse statements a comparative term is required

1

(conditions on upper surface will:) any **one** from:

- be warmer
- be drier
- be more exposed to wind
- have more light

1

(so) less water will be lost

1

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Q2.

(a) diffusion

1

(b) (SA of one face = 2 × 2) =4

ignore units

1

(Total SA = 4 × 6) = 24

allow correct calculation using their calculated SA of 1 face × 6

1

(Volume = 2 × 2 × 2) =8

(SA:volume ratio =) 24:8 **or** 3:1

ratio must be consistent with their figures

1

(c) red (blood) cell(s)

allow erythrocyte(s)

1

(d) carbon dioxide

name takes precedence

allow CO_2
gnore CO^2 / CO2
ignore water (vapour)

1

(e)

ignore large surface area
ignore many alveoli
ignore moist lining

any **two** from:

- wall of alveolus (only) one cell thick
- wall of capillary (only) one cell thick
- cells of alveolus / capillary wall are flattened / thin
- good blood supply

if none of these mentioned
*allow **1** mark for idea of short distance between (air in) alveolus and blood*

- (well) ventilated

2

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