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

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Name of the Student:_____
Max. Marks : 18 Marks **Time : 18 Minutes**

Mark Schemes

Q1.

(a) 6 6 6

all required

accept a '6n 6 n n 6n' version of the balanced equation provided it is correct in every detail

1

(b) any **two** of

- (presence of) chlorophyll **or** (amount of) chloroplasts
  accept green leaves (or other green parts)
- (sufficient) light (intensity)
- (light) of **a** suitable wavelength
  any light other than green light
  do not credit Sun's energy or sunshine or Sun

2

(c) **guard cells**

any **two** of

* control by osmosis
* the movement of gases
  *accept movement of carbon dioxide **or** oxygen **or** water vapour beware movement of CO_2 out*
  accept a diagram or description
* through the stoma

2

palisade cells

any **two** of

* near the upper surface
* contain (a great) <u>many</u> **or** <u>more</u> chloroplasts
* (so) contain the most chlorophyll

2

(d) any three of

* for respiration

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* conversion to (insoluble) starch

or to food store **or** to (other)carbohydrates
* (conversion to) sucrose **or** to food store **or** to (other) carbohydrates

or polysaccharides

*do not credit just to grow **or** live*

***or** survive*

accept conversion to food store

***or** to (other) carbohydrates once only*

* (conversion to) lipids **or** fats **or** oils
* (conversion to) amino acids **or** (plant) proteins **or** auxins **or** (plant) hormones **or** enzymes

3

[10]

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Q2.

(a) (i) the three features correctly labelled on cheek cell (which are referred to in part (ii)

label lines should touch or end very close to part no marks if leaf cell labelled

nucleus

cytoplasm

cell membrane

mitochondrion

accept mitochondria or one of these could be labelled vacuole

3

(ii) any **three** from

feature	**function**
nucleus	controls cell

*accept contains genetic material **or** genes **or** chromosomes **or** stores information*
do not credit the brain of the cell

cytoplasm	where respiration occurs

*accept contains food **or** mitochondria*

or reactions occurs

membrane	less water **or** chemicals

accept surrounds the cell or lets some things in but not others
*do not credit keeps things out **or** protection*

in and **or** out

mitochondria	where energy released

ecf from leaf cell labelling
*accept chloroplasts make sugar **or** glucose*
accept vacuole contains sap
*accept if cell wall mis labelled on cheek cell, support **or** hold together*

3

(b) fight **or** ingest **or** kill bacteria **or** germs **or** viruses **or** microbes

accept produce antitoxins or antibodies fight disease (organisms)
do not credit fungus

1

(transport) oxygen **or** carry haemoglobin

*accept transport carbon dioxide **or** helps form scabs*

1

[8]

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