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

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Name of the Student:_____
Max. Marks : 21 Marks **Time : 21 Minutes**

Mark Schemes

Q1.

(a) any **two** adaptations with linked descriptions from:

- many alveoli to provide a large surface area
- good blood supply to maintain steep diffusion / concentration gradient
- thin walls so gases do not have far to diffuse / travel
- well ventilated to maintain steep diffusion / concentration gradient

__1__ mark for adaptation and __1__ mark for linked description
allow to collect oxygen __or__ to bring carbon dioxide to lungs

4

(b) an allergy

1

(c) any **one** from:

- narrow(er) / small(er) (air) passages / bronchioles
- less air / oxygen can pass through

1

(d) 3.3 (dm^3)

1

(e) any **one** from:

- fake drug
- inactive form of drug

1

(f) neither the volunteers nor the scientists

1

(g) to avoid / reduce bias

1

(h) any **two** from:

- drug only works for severe asthma attacks
  or
  drug only increased lung capacity in severe asthma attacks

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- drug had little effect **or** slight reduction in healthy people
- drug had no effect in mild asthma attacks
- drug does not alleviate the problem entirely

2

[12]

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Q2.

(a) 0.27 (g)

1

(b) potato lost mass

allow potato (cells) lost water

1

(c) all 3 points plotted correctly

allow ecf from art (a)

*allow **1** mark for 1 or 2 correct plots*

2

suitable line of best fit

allow ecf from their plots

1

(d) 2.6 (arbitrary units)

allow answer from their line

1

(e) same concentration as inside potato (cells)

1

(so) no (net) movement of water

allow description of this

1

by osmosis

1

[9]

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