Practice Question Set For GCSE
Subject : Biology
Paper-1 Topic: B4 Bioenergetics

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Name of the Student:_____
Max. Marks : 20 Marks **Time : 20 Minutes**

Mark Schemes

Q1.

(a) (i) C and D **1**

(ii) cell wall **1**

(b) (i) A **1**

(ii) D **1**

(c) respiration **1**

[5]

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Q2.

(a) (i) glycogen

1

(ii) respiration

1

(b) (i) 483 kJ

1

(ii) oxygen

1

(iii) dilate

1

(c) supplies more / a lot of oxygen **or** removes more carbon dioxide
or release more energy / faster respiration

1

[6]

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Q3.

(a) any **one** from:

- (type of / amount of) soil / minerals / nutrients / pH
- amount of water / time of watering
- space between plants / plants and wall
- time for growth

list principle
ignore carbon dioxide / same number of plants / food
*do **not** allow temperature / light / exposure to wind*

1

(b) (i) North wall

1

(ii) nugget

list principle

1

(c) has not tested all varieties / nugget / champion against all walls

*do **not** allow repeat experiment*

1

[4]

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Q4.

(a) (i) 150

1

(ii) any **two** from:

accept correct use of numbers

accept pulse rate

- lower resting rate
- lower rate during exercise
- recovers faster after exercise

allow a general statement about lower rate if neither of the first two points given

2

(b) glucose

1

oxygen

1

[5]

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