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

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Name of the Student:_____
Max. Marks : 17 Marks **Time : 17 Minutes**

Mark Schemes

Q1.

(a) more water vapour
accept more water
1

more carbon dioxide
1

less oxygen
1

(b) (i) glucose
accept carbohydrate(s)
accept sugar(s)
1

(ii) heat
or *thermal*
or *internal kinetic*
1

(iii) lungs
accept alveoli / alveolus
do not credit air sacs
do not credit capillaries
both neutral if included with lungs
1

(c) oxygen
accept O_2
1

lactic
1

[8]

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Q2.

(a) carbon dioxide in range 2.5-5%

gains 1 mark

but

carbon dioxide closer to 4% than to 3% or 5%

gains 2 marks

OR

oxygen in range 15-17.5%

gains 1 mark

but

If 3 sectors drawn and two correctly labelled, award marks and ignore remaining sector

Oxygen and carbon dioxide sectors labelled

for 1 mark

3

(b) carbon dioxide

oxygen

for 1 mark each

Do not allow water vapour.

(Allow correct symbols/formulae)

2

[5]

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Q3.

(a) idea that

- light doesn't reach deeper parts
- plants need / absorb light
- to make food

gain 1 mark each to maximum of 2

but

so they can photosynthesise

gains 2 marks

2

(b) herring will be on the bottom

herring follow / will be feeding on the copepods

independent marking points

for 1 mark each

2

[4]

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