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	QUESTIONS	<u> </u>
Question 1		10 X [1] =
1. Adenosine Tri	Phosphate (ATP)	2. I
GlycoLysis	4. Oxygen	5. Anaerobic
Energy	7. Cristae	8. Lactic Acid

9. Oxidative Phosphorelation 10. Enzymes

Question 2

1. Mitochondrion

[1] [2]

dioxide

(a) 5=Glucose

2. A=PhotoSynthesis B=Respiration 3. 2=Oxygen 3=Carbon dioxide 4= Oxygen

(b) An alcohol called Ethanol + Carbon dioxide

- [10]
 - Mitochondrion 6. Chemical
 - 8. Lactic Acid Fermentation

 - 6=Carbon
 - [4]
 - [1]
 - [3]

Question 31. Water. Glasstube. Thistle funnel. Germinating seeds. Clear limewater.[5]

- The clear lime-water turns a milky-white colour. [2]
 This is the Control you boil them to kill the seeds. [2]
 Exactly the same apparatus as for the Experiment, except that
- the seeds are dead they cannot respire to release CO₂.
 [3]

 6. The process of Respiration releases carbon dioxide. [2]

 Question 4

Active respiration is happening in all of them.

It absorbs carbon dioxide. [2]
 Seeds are kept above the liquid, and gases can easily move between them. [2]

It moved, from A to B.
 The released gas (CO₂) was absorbed by the potassium hydroxide. The seeds were sucking in oxygen. This caused the gas in the tube to be sucked in – as is shown by the

coloured liquid.

Both involve glucose.

5. Question 5

- Both use ATP as the energy-carrier. [2]

 2. Humans produce Lactic Acid
- Yeast produces alcohol and CO₂. [2] 3. Breaking down food to release energy, without using Oxygen.
- 4. When we do excess exercise lots of energy is needed, with not enough oxygen. [2]