

12.1 Respiration

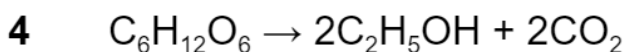
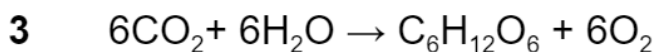
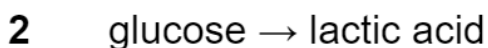
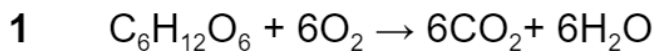
Question Paper

Course	CIEIGCSE Biology
Section	12. Respiration
Topic	12.1 Respiration
Difficulty	Hard

Time allowed: 10
Score: /5
Percentage: /100

Question 1

Four metabolic reactions that can occur in living organisms are shown below:



Which of the above reactions take place in yeast cells to release energy?

A 1 and 2

B 1 and 3

C 3 and 4

D 1 and 4

[1 mark]

Question 2

Which of the following processes would release the most energy in a cell from one molecule of glucose?

1 Aerobic respiration in yeast

2 Aerobic respiration in animals

3 Aerobic respiration in plants

A 2 only

B 3 only

C 1 & 3

D All of the above

[1 mark]

Question 3

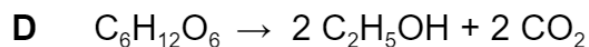
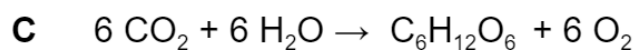
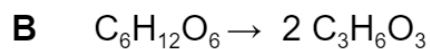
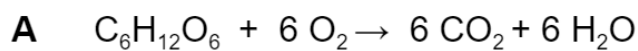
In which conditions would the cells of a dicotyledonous green plant respire?

	mesophyll cell		root hair cell	
	darkness	bright light	darkness	bright light
A	✓	X	✓	X
B	X	✓	X	X
C	X	X	X	X
D	✓	✓	✓	✓

[1 mark]

Question 4

Which of the following is the correct balanced symbol equation for aerobic respiration in yeast cells?



[1 mark]

Question 5

The list below shows four metabolic processes that can occur in living cells

- 1 carbon dioxide + water → glucose + oxygen
- 2 glucose → lactic acid
- 3 glucose + oxygen → carbon dioxide + water
- 4 glucose → alcohol + carbon dioxide

Which row of the table correctly represents the processes that can occur in muscle cells and yeast cells.

	in muscles	in yeast
A	3 only	1 & 4
B	3 & 4	2 & 3
C	2 only	1, 3 & 4
D	2 & 3	3 & 4

[1 mark]