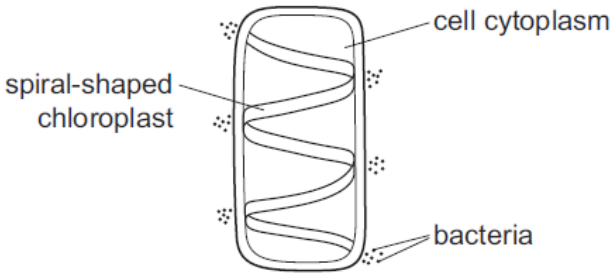
Respiration – 2020 IGCSE 0610

1. Nov/2020/Paper_11/No.12

The diagram shows a cell with groups of bacteria around its edge.



The bacteria move to areas of high oxygen concentration.

Which process in the cell causes the bacteria to form these groups?

A digestion

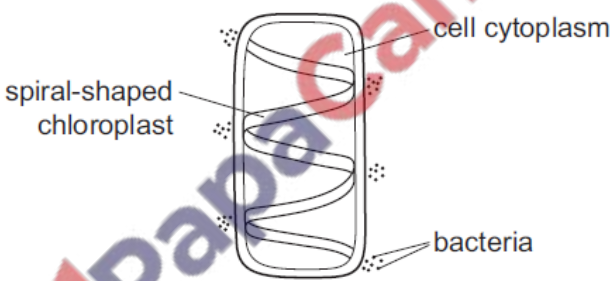
B photosynthesis

C reproduction

D respiration

2. Nov/2020/Paper_12/No.12

The diagram shows a cell with groups of bacteria around its edge.



The bacteria move to areas of high oxygen concentration.

Which process in the cell causes the bacteria to form these groups?

A digestion

B photosynthesis

C reproduction

D respiration

3. Nov/2020/Paper_12/No.23

What is produced during anaerobic respiration in muscles?

A carbon dioxide

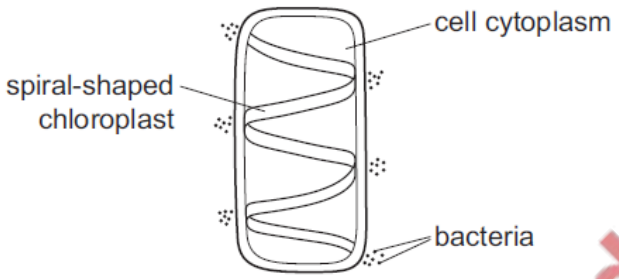
B ethanol

C lactic acid

D water

4. Nov/2020/Paper_13/No.22

The diagram shows a cell with groups of bacteria around its edge.



The bacteria move to areas of high oxygen concentration.

Which process in the cell causes the bacteria to form these groups?

A digestion

B photosynthesis

C reproduction

D respiration

5. Nov/2020/Paper_21/No.21

The list shows some processes that happen in the human body.

1 water enters cells by osmosis

2 muscles contract

3 impulses travel along neurones

4 oxygen diffuses into cells

Which of these require energy released by respiration?

A 2 only **B** 1 and 3 only **C** 2 and 3 only **D** 1, 2, 3 and 4

6. Nov/2020/Paper_22/No.21

What is produced during anaerobic respiration in muscles?

A carbon dioxide

B ethanol

C lactic acid

D water

7. Nov/2020/Paper_23/No.21

What is produced by anaerobic respiration in yeast?

A alcohol, carbon dioxide and water

B alcohol and carbon dioxide only

C carbon dioxide and lactic acid

D lactic acid only

8. Nov/2020/Paper_42/No.4

(a) Yeast cells have many structures in common with a plant cell.

Fig. 4.1 is a drawing of a yeast cell.

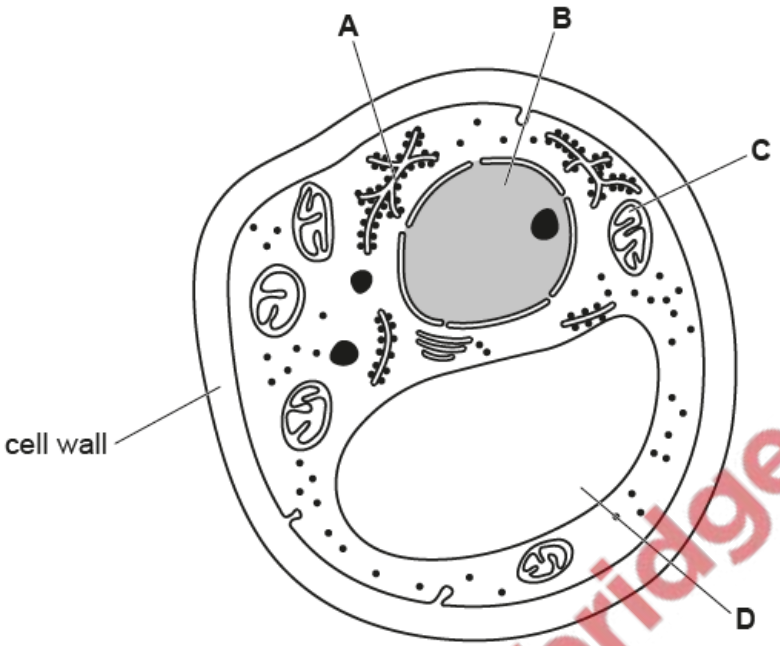


Fig. 4.1

(i) State the names of the cell structures labelled **A** and **D** on Fig. 4.1.

A .....

D .....

[2]

(ii) State the functions of the cell structures labelled **B** and **C** on Fig. 4.1.

B .....

C .....

[2]

(iii) State the name of **one** structure that is found in plant cells but is absent in yeast cells.

..... [1]

(b) Yeast is used in the production of ethanol to manufacture a type of biofuel.

Fig. 4.2 is a flow chart of the process.

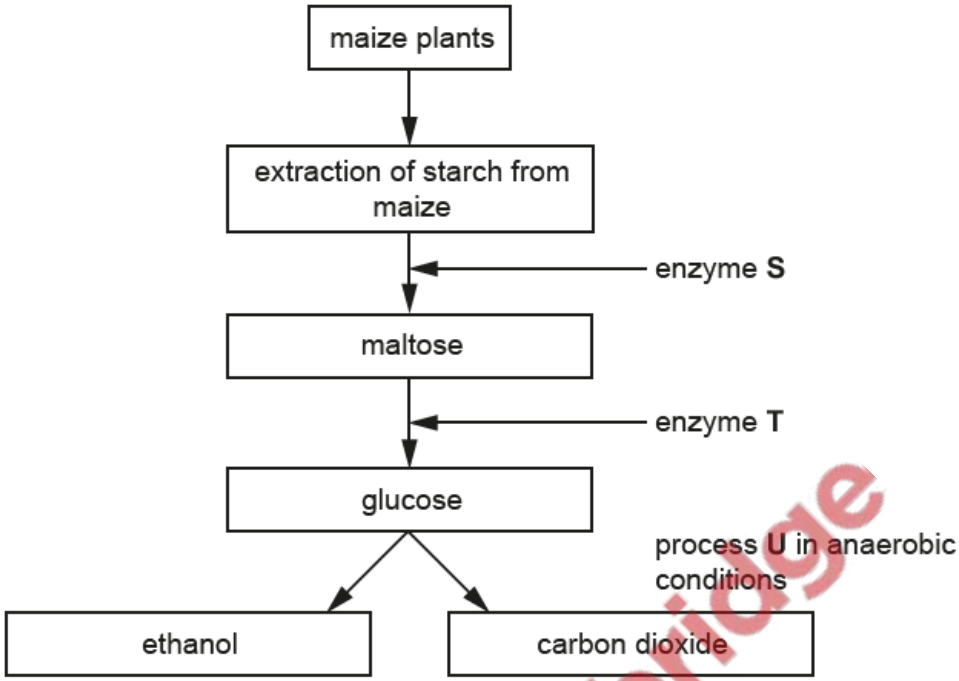


Fig. 4.2

(i) State the names of enzymes **S** and **T**.

S .....

T .....

[2]

(ii) Yeast is used in process **U**. Complete the balanced chemical equation for anaerobic respiration in yeast.

..... ⟶ .....C_2H_5OH + ...

[2]

(iii) Suggest the advantages of using biofuels instead of fossil fuels.

.....

.....

.....

.....

.....

.....

..... [3]

(iv) Carbon dioxide may be collected from process **U** and sold for use in glasshouses.

Explain why carbon dioxide is used in glasshouses.

.....

.....

.....

.....

.....

.....

.....

..... [4]

[Total: 16]