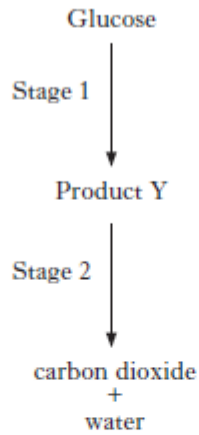


## Homework 2- Respiration

1.

The process of aerobic respiration in a muscle cell is outlined below.



(a) (i) Name Stage 1.

\_\_\_\_\_

1

(ii) Name product Y from Stage 1.

\_\_\_\_\_

1

(iii) What other substance must be present for Stage 2 to occur?

\_\_\_\_\_

1

(b) ATP is formed during respiration and broken down for uses in cells.

(i) How many molecules of ATP are formed from each glucose molecule during

Stage 1 only? \_\_\_\_\_

Both Stage 1 and Stage 2? \_\_\_\_\_

1

(ii) What **two** molecules are produced when ATP is broken down?

\_\_\_\_\_ and \_\_\_\_\_

1

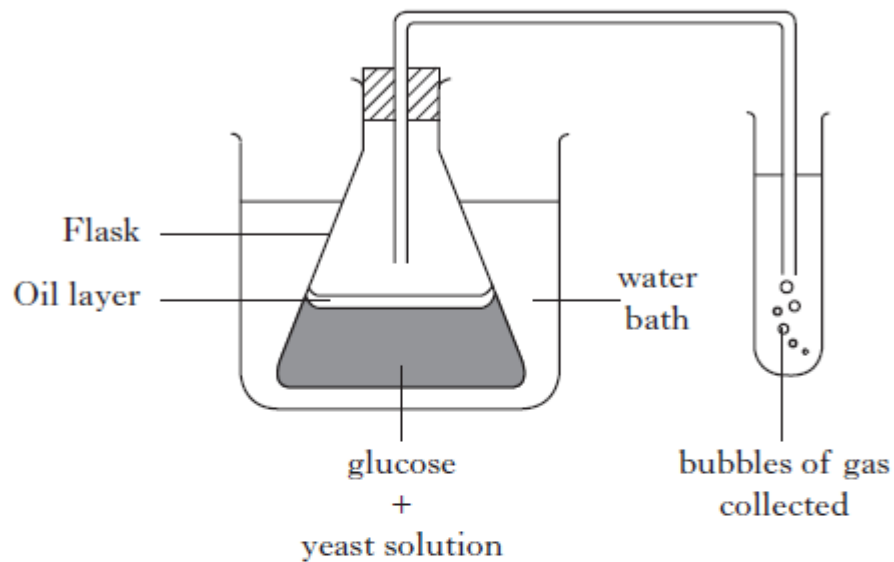
(iii) State **one** use of the energy released when ATP is broken down.

\_\_\_\_\_

1

2.

An investigation into anaerobic respiration in yeast was carried out.



6. The purpose of the oil layer in the flask is to ensure that
- A oxygen from the solution is not released into the flask
  - B carbon dioxide from the flask does not enter the solution
  - C oxygen from the air does not enter the solution
  - D carbon dioxide from the solution is not released into the flask.