



**Science Revised Syllabus
Junior Certificate
Higher Level**

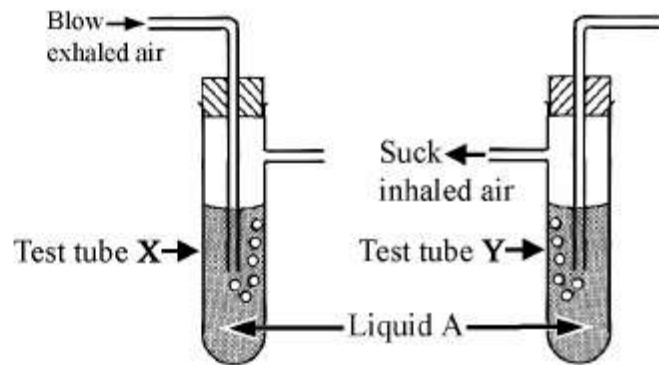
**Past Exam Questions on
B Respiration**

Q2 Part (b) 2009

- (b) The diagram shows the apparatus used by a pupil when performing an experiment in a school laboratory.

The pupil blew (exhaled) air into test tube X.

The pupil sucked (inhaled) air from test tube Y.



The pupil continued, alternately, blowing and sucking air, as above, until *liquid A* in *one* of the test tubes *turned milky*.

- (i) Name *liquid A*. (3)

Name _____

- (ii) In *which* test tube, X or Y, did the *liquid turn milky*? (3)

Which? _____

- (iii) Why did *liquid A* *turn milky* in *one* of the test tubes? (3)

Why? _____

- (iv) What *conclusion* can be made from the *result of this experiment* regarding the *difference in composition between exhaled and inhaled air*? (3)

Conclusion? _____

- (v) Complete the *word equation*, below, for *aerobic respiration*. (6)

Food + _____ → _____ + energy + water

Q3 Part (a) 2007

Plants, animals and human activity all have important roles in conserving the living environment on the planet.

- (a) (i) Complete the following *word equation* for aerobic respiration. (6)

Glucose (Food) + _____ →

Energy + _____ + Water

- (ii) State how you would show the presence of **one** of the *products* of aerobic respiration by means of a *chemical test*. (9)
