



Biology
Leaving Certificate
Ordinary Level

Past Exam Questions on
Breathing System

Q7 Section B 2012

7. (a) (i) Name **one** disorder of the human breathing system. _____

(ii) Give **one** possible treatment for the disorder referred to above. _____

(b) Answer the following questions about an activity that you carried out to investigate the effect of exercise on your breathing rate or your pulse rate.

Tick the rate you will refer to.

Breathing Rate	
Pulse Rate	

(i) The investigation starts by measuring the resting rate. How did you measure the resting rate?

(ii) After measuring your resting rate, what other steps did you carry out to complete the investigation?

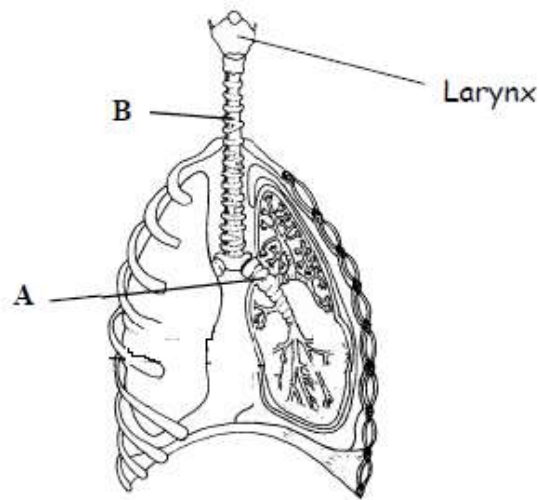
(iii) What was the result of your investigation?

(iv) Does this investigation give the same result for both fit and non-fit people? _____

(v) Give a reason for your answer.

Q13 Part (c) Section C 2011

(c) The diagram shows part of the human breathing system.



- (i) Name the parts labelled A and B.
- (ii) In what structures in the lungs does gaseous exchange take place?
- (iii) Give **one** feature of the structures referred to in (ii) that allows efficient exchange of gases.
- (iv) What is the function of the larynx?
- (v) Outline the steps involved in inhalation.

(27)

Q8 Section B 2008

8. (a) State the location in the human body of the following muscles which are used for breathing:
- (i) diaphragm _____
 - (ii) intercostals _____

(b) Answer the following questions about an activity that you carried out to investigate the effect of exercise on the breathing rate or pulse of a human.

(i) At the start of the investigation you asked the person who was about to do the exercise to sit down for a few minutes. Explain the purpose of this. _____

(ii) How did you measure the breathing rate or the pulse?

(iii) Describe how you conducted the investigation after the period of rest.

(iv) State the results of your investigation. _____

Q14 Part (c) Section C 2008

- (c) (i) Draw a large labelled diagram of the human breathing tract and label the following parts; larynx, trachea, bronchus, bronchiole.
(ii) What is the role of alveoli in the lungs?
(iii) Name a breathing disorder.
(iv) Suggest a possible cause of the breathing disorder that you have named in (iii) and state how it may be treated.

Q3 Section A 2007

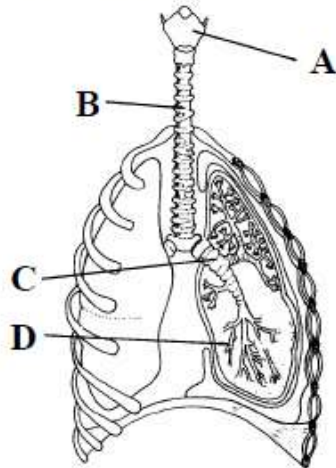
3. Indicate whether the following are true (T) or false (F) by drawing a circle around T or F.

Example: The pulmonary artery carries blood to the lungs	<input checked="" type="radio"/>	F
(a) If the eyepiece lens of a microscope is marked X10 and the objective lens is marked X4, the total magnification is X14	T	F
(b) Plant cells have chloroplasts, animal cells do not have chloroplasts	T	F
(c) Humans receive oxygen from the air they inhale	T	F
(d) Cell membranes let only some molecules pass through	T	F
(e) Human chromosomes are found in the nucleus	T	F

Q12 Section C 2005

12. (a) (i) Name the major blood vessels that carry blood
1. from the heart to the lungs
2. from the lungs to the heart
(ii) What gas is released from the blood when it reaches the lungs? (9)

- (b) The diagram shows part of the human breathing system.



- (i) Name A, B, C, D.
(ii) D ends in a small sac. What is the name of this sac?
(iii) What is the function of A?
(iv) B contains rings of cartilage. Suggest a function of this cartilage.
(v) Where is the epiglottis? What is its function? (27)
- (c) (i) Name the muscles that are used in breathing.
(ii) Breathing causes pressure changes in the thoracic cavity. Describe briefly how these pressure changes are brought about.
(iii) Name a breathing disorder. Give a possible cause of this disorder and suggest a means of prevention or treatment. (24)