

NAME : _____ FORM : _____ DATE : _____

CHAPTER 18 : RESPIRATION

1.1 **Diagram 1** shows a part of the respiratory system.

(a) Name the structures labelled **P, Q and R**

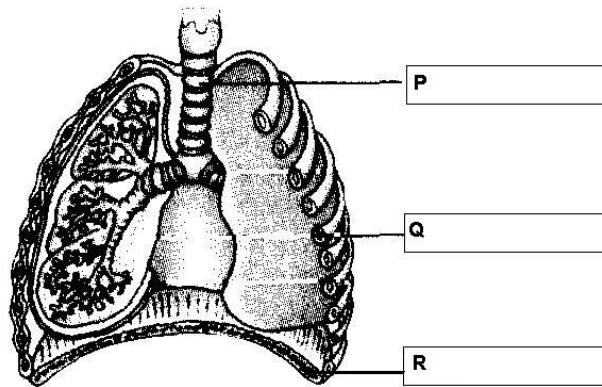


Diagram 1

Trachea	Rib	Diaphragm
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(3 marks)

(b) Draw lines to show the correct match between the structures and their description.

P	→	A sheet of muscles which separates the thorax from the abdomen
Q		Tube supported by rings of cartilage
R		Space where air passes through
		Bones that form the rib cage to protect the lungs

(2 marks)

1.2 Diagram 2 shows a structure from the human respiratory system

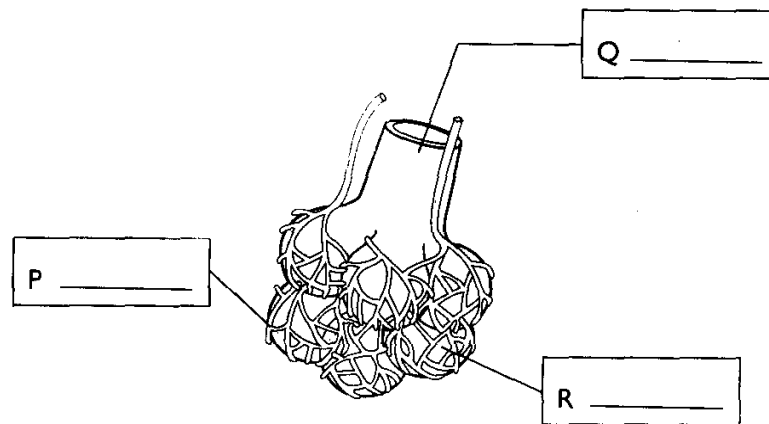


Diagram 2

a) Name the parts labeled P, Q, and R using the following terms

Alveolus	bronchiole	capillary
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b) Draw a line to show the correct match between the structure and their descriptions

Structure

Description

P

Small branches inside the lungs . At the end of these tubes are the alveoli

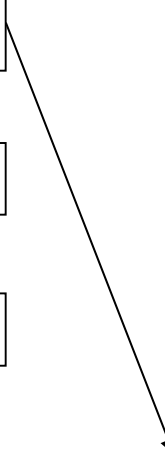
Q

Tube that leads into the lungs and divides into smaller tube

R

The structure are surrounded by tiny blood vessels

The smallest blood vessel in our body



[2 marks]

3.1 Diagram 3 shows a pair of human lungs.

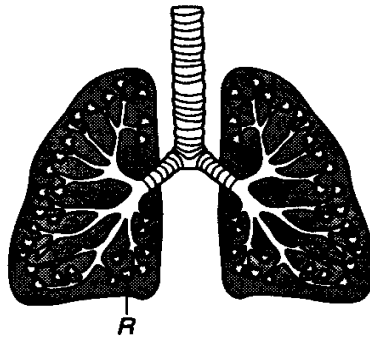


Diagram 3

a) Name the part labeled R

_____ [1 mark]

b) State **two** characteristics of R that enables it to perform efficiently

(i) _____

(ii) _____

[2 marks]

c) Name **two** substances in cigarette smoke that can damage R

(i) _____

(ii) _____

[2 marks]

d) Which system is the organ shown in diagram 3 contained in?

_____ [1 marks]

4. The diagram below shows the model of the human respiratory system.

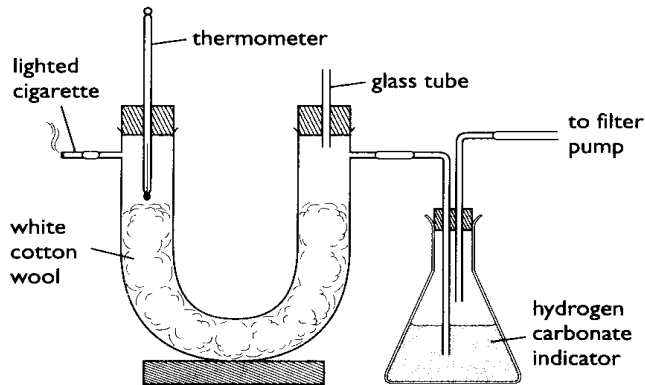


Diagram 4

a) When the cigarette is lighted, state your observations on the following.

i) The temperature :

ii) The white cotton wool :

iii) The hydrogen carbonate indicator

(3 marks)

b) State **three** good habits that can help to improve the quality of air.

i) _____

ii) _____

iii) _____

(3 marks)

c) Name **two** diseases that affect the human respiratory system.

i) _____

ii) _____

(2 marks)

5. Diagram 5 shows the human respiratory system

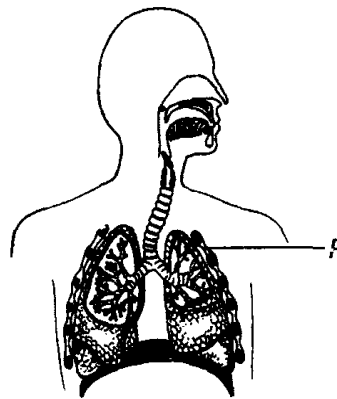


Diagram 5

a) Label **one** of the following structures in diagram 5

[1 mark]

Bronchus	bronchiole	diaphragm	trachea
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b) State the function of the structure labelled P?

[1 mark]

c) A student has set up a model of the human respiratory system.

Diagram 6 shows what happens when the rubber sheet is pulled down and pushed up

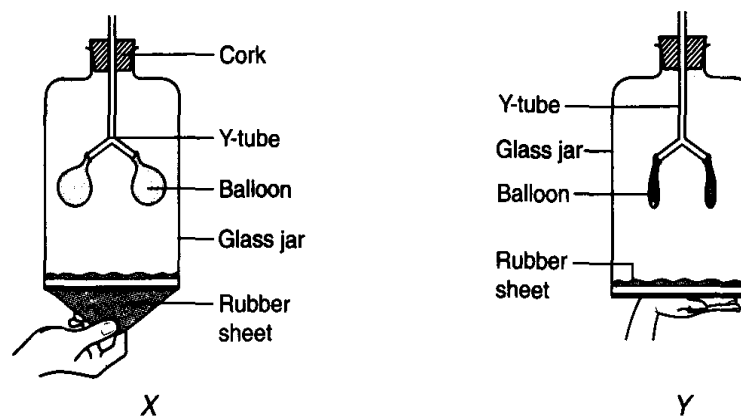


Diagram 6

i. What do the following structures of the model represent?

Structure of model	Balloons	Rubber sheet
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Structure of the human respiratory system		
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[2 marks]

ii. Name the phases of breathing represented by

X : _____

Y : _____

[2 marks]

iii. Exhale air contains less oxygen than inhale air. Why

[2 marks]

5.2 **Diagram 7** shows the apparatus used in an experiment to investigate the effect of smoking on the lungs.

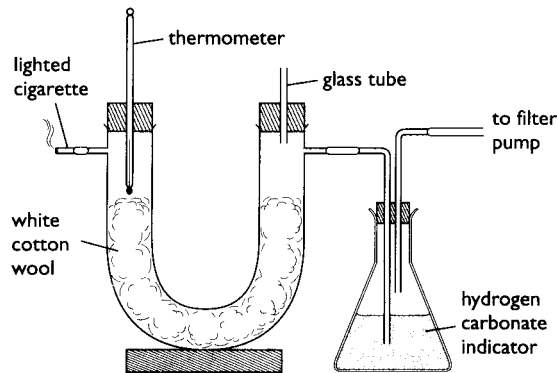


Diagram 5

a) Name the part of the respiratory system that is represented by the cotton wool

_____ [1 mark]

b) What are the changes that be can be observed at the end of this experiment. Complete the following table.

Materials	Observation
Cotton wool	
Hydrogen carbonate indicator	
Thermometer	

[2 marks]

c) State **two** substances in cigarette smoke that are harmful to the lungs

_____ [2 marks]

d) How does the substances that mentioned in (c) harm the respiratory system ?

[2 marks]