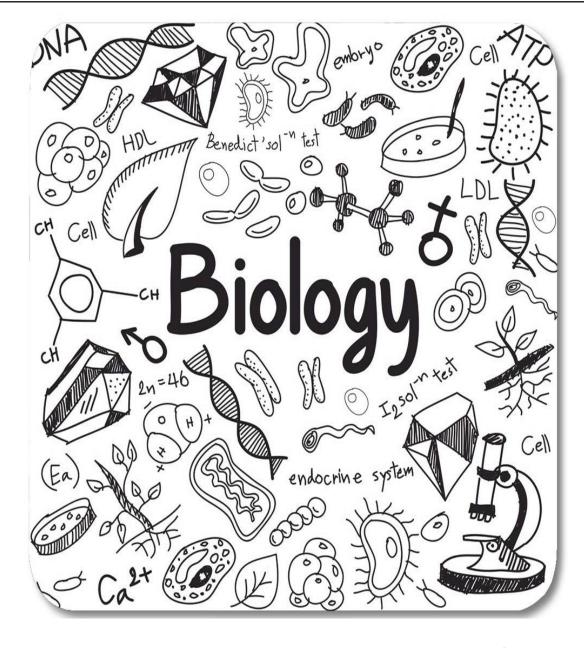


Lesson: Review questions pages 134,135

Scholastic Year: 2022- 2023

Grade: 7CS











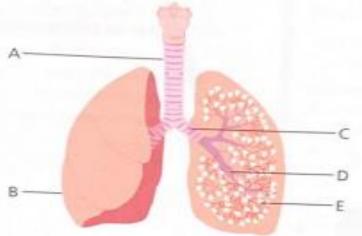








The diagram below shows the main organ in the respiratory system.



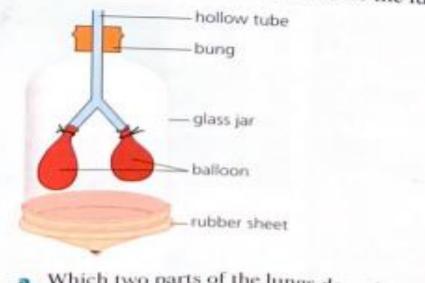
Choose the correct letter for each of these parts:

a	alveoli @	
	bronchiole d	[1]
	trachea A	[1]
		[1]
	lung o	[1]
	or official.	[13
	[2012] [12] [12] [12] [12] [12] [12] [12] [111

Name the part of the lungs that matches each of these descriptions:

а	small air spaces where gas exchange takes place	
ь	a reinforced tube that takes air down to one lung	[1]
c	small tubes that lead air to millions of tiny air spaces.	[1]

1a Alveoli. 2a Bronchus. Bronchioles. 3 The model lung in the diagram can be used to show how air is moved in and out of the lungs.



- a Which two parts of the lungs does the hollow tube represent?
- b What does the rubber sheet represent? Of o.
- sheet is pulled down. Our 15 900000
- d A model is never exactly like the real thing.

 Name one part of the lungs that is not represented on this model.

- 3a Trachea and bronchi.
 - The diaphragm.
 - Air rushes in and the lungs inflate.
 - d Any one from: the bronchioles; the intercostal muscles; the alveoli.

When your chest expands, air moves into your lungs. Write the letters A-E in the correct order to describe the path the air takes.

A alveoli

B bronchi

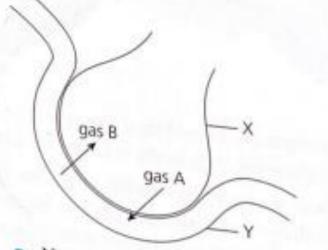
C trachea

D bronchioles

E nose

E, C, B, D, A

The diagram below shows how gas exchange takes place in the lungs.



- Name parts X and Y.
- Name gases A and B.
- Explain how this helps gas exchange. [2]

- 5a X alveolus; Y capillary.
- A oxygen; B carbon dioxide.
- 2 This allows the air in the alveolus and the blood to get very close together, which speeds up diffusion/gas exchange.



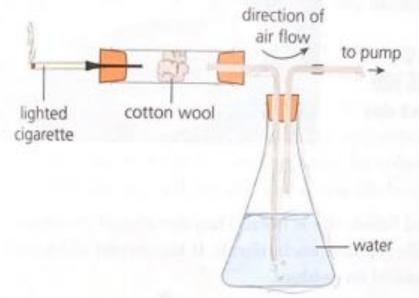
Processes A, B, and C all involve oxygen and carbon dioxide.

- A gas exchange
- B breathing
- c respiration

Choose the comect letter to match each of these descriptions:

- moving air in and out of the lungs
- b the process that takes place in alveoli
- a chemical reaction that takes place in every cell.

7a B b A c C The apparatus in the diagram collects gases released by a burning cigarette.



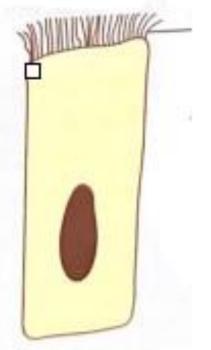
- When a cigarette burns the cotton wool turns black and sticky. Name the black substance produced.
- b The cotton wool in the apparatus represents the inside of a smoker's lungs. Describe one effect the black substance can have on lungs.
- When universal indicator is added to the water it turns red. What does this tell you about cigarette smoke?

8a Tar.

- b Any one from: can cause lung cancer; can cause bronchitis; can cause emphysema; can reduce gas exchange.
- c It is acidic.
- d It is addictive.

Two types of cell line the main airways in the lungs: cells that produce a sticky mucus, and ciliated cells like the one below.

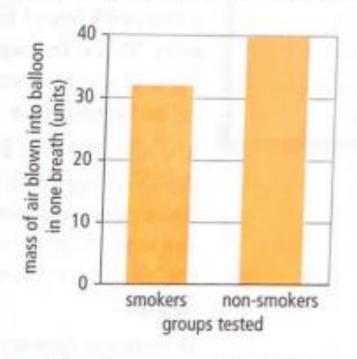
The dust and microorganisms in air stick to the mucus in the lungs.



- What do ciliated cells do to mucus?
- how can this cause more lung damage?

- 9a They waft it up the tubes in your lungs towards your throat, to be swallowed.
- b Mucus traps microbes. If the cilia are paralysed, they are unable to move the microbes out of your lungs, so the microbes multiply there and cause an infection.

10 smokers and 10 non-smokers take part in an investigation. They are all aged 15. Each takes one breath and blows into a balloon as hard as possible Their average results are shown in the bar chart.



- a What is measured in this investigation? [1]
- b Write down one factor that is kept the same. [1]
- c Do the results support the idea that smoking damages lungs? [1]

11a Mass of air.

- b Any one from: number of breaths taken; age of participants; size/type of balloon.
- c Yes on average, the 10 smokers blew out a lower mass of air than the non-smokers.