

Past-paper walk-through

Absorption ■ 7.5

eXercise

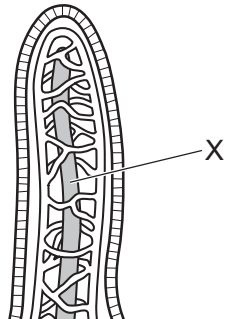
Questions in this set

- 0610/23 N25 Q12 ■ 1 mark
- 0610/21 J25 Q12 ■ 1 mark
- 0610/22 J25 Q13 ■ 1 mark
- 0610/23 J25 Q11 ■ 1 mark

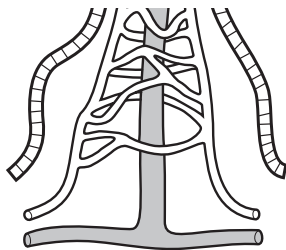
Question 12

0610/23 N25 ■ Q12 ■ 1 mark

12 The diagram shows a villus.



Question 12



Which row shows the name and function of the part labelled X?

	name	function
A	capillary	absorption of amino

Question 12

B	capillary	acids and glucose absorption of fatty acids and glycerol
C	lacteal	absorption of amino acids and glucose
D	lacteal	absorption of fatty acids and glycerol

Solution 12

Answer: **D**

Why

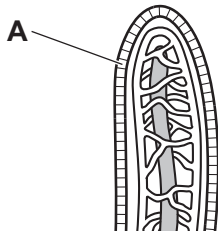
- A villus has a network of capillaries and one central lacteal.
- The capillaries absorb glucose and amino acids into the blood.
- The lacteal absorbs fatty acids and glycerol into the lymph – so identify which vessel is labelled.

Question 12

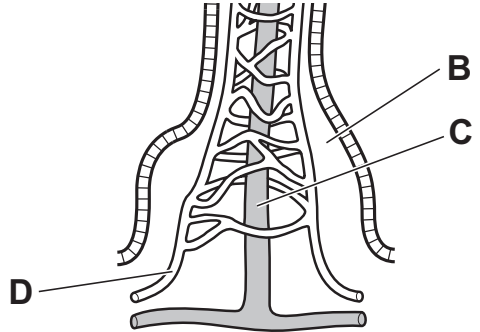
0610/21 J25 ■ Q12 ■ 1 mark

12 The diagram shows the structure of a villus.

Which label shows a lacteal?



Question 12



Solution 12

Answer: **C**

Why

- A villus contains a network of blood capillaries and a single central lacteal.
- The lacteal absorbs the fatty acids and glycerol into the lymph.
- So look for the single vessel running up the middle, not the capillary network around the outside.

Question 13

0610/22 J25 ■ Q13 ■ 1 mark

13 What is the function of microvilli in the small intestine?

- A** conduction of electrical impulses
- B** increasing surface area for absorption
- C** movement of food particles
- D** movement of mucus

Solution 13

Answer: **B**

Why

- Microvilli are tiny folds on the surface of each villus cell.
- They greatly increase the surface area available.
- A larger surface area means faster absorption of the digested food.

Question 11

0610/23 J25 ■ Q11 ■ 1 mark

- 11** Digested food molecules move into the cells of the body where they are used and become part of the cells.

What is this a definition of?

- A** absorption
- B** assimilation
- C** digestion
- D** ingestion

Solution 11

Answer: **B**

Why

- Absorption is taking the digested molecules into the blood.
- Assimilation is the next step: the cells take them in and build them into their own structures.
- So becoming *part of* the cells is assimilation, not absorption.