

1. **June/2022/Paper_11/No.14**

What is the dietary importance of fibre in humans?

- A for growth and repair of cells
- B to help food move through the alimentary canal
- C to maintain strong bones and teeth
- D to provide energy

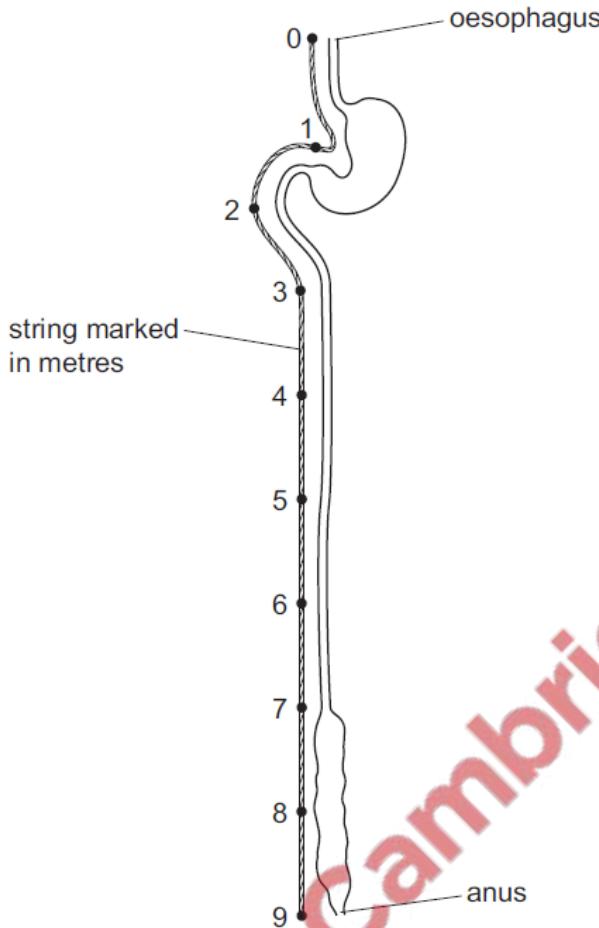
2. **June/2022/Paper_11/No.15**

In which part of the alimentary canal does ingestion take place?

- A anus
- B liver
- C mouth
- D stomach

3. June/2022/Paper_11/No.16

The diagram shows the human alimentary canal, with a string marked in metres beside it.



How long is the small intestine?

A 2 m

B 6 m

C 8 m

D 9 m

4. June/2022/Paper_12/No.14

The table shows some different components in a balanced diet.

Which row correctly matches the components to the reasons why they are needed?

	vitamin D	water	fats
A	insulation	bone growth	to make haemoglobin
B	bone growth	transport	insulation
C	transport	to make haemoglobin	bone growth
D	to make haemoglobin	insulation	transport

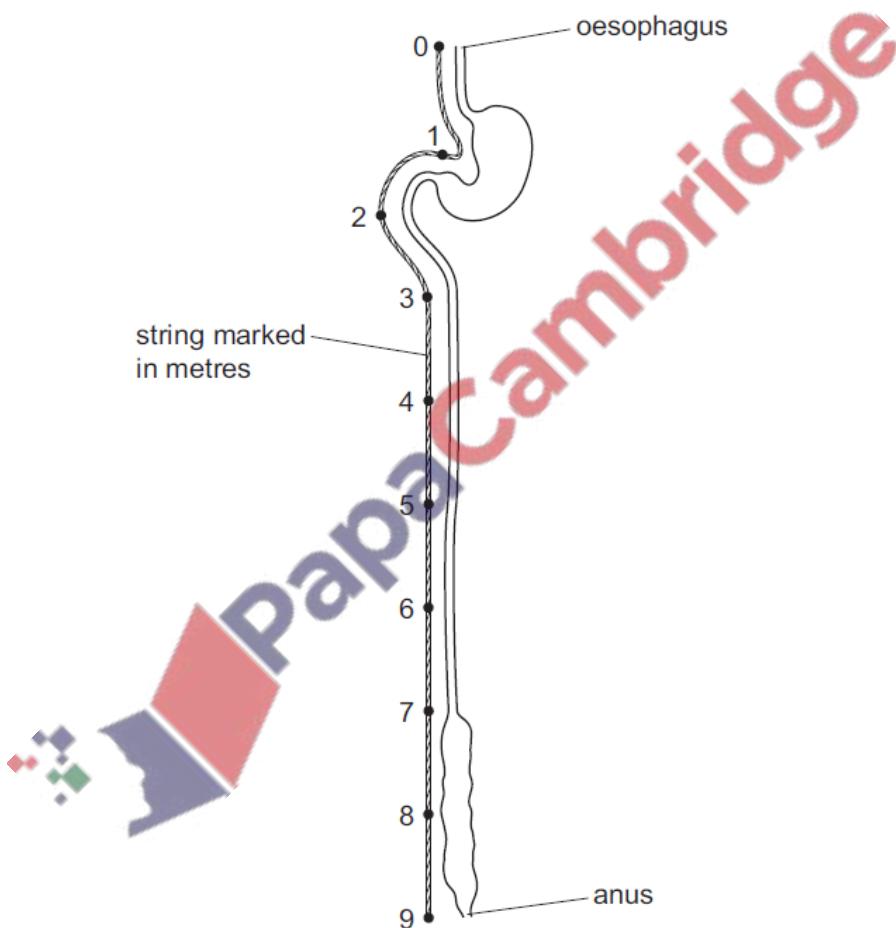
5. June/2022/Paper_12/No.15

Which process involves the removal of material from the rectum?

- A egestion
- B ingestion
- C chemical digestion
- D mechanical digestion

6. June/2022/Paper_12/No.16

The diagram shows the human alimentary canal, with a string marked in metres beside it.



How long is the small intestine?

- A 2m
- B 6m
- C 8m
- D 9m

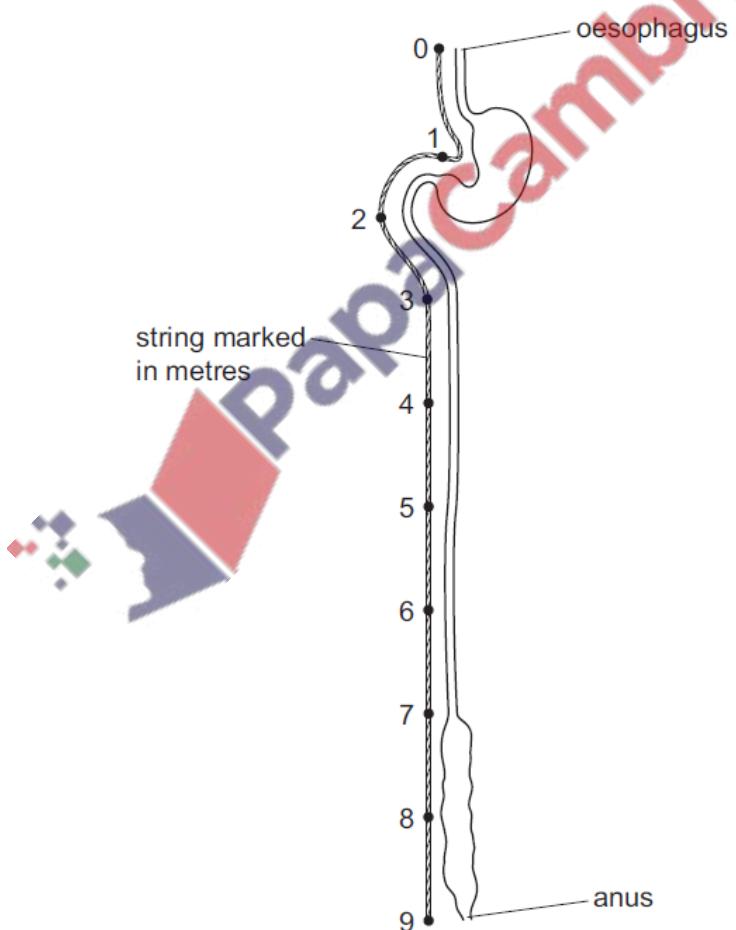
7. June/2022/Paper_13/No.14

Which nutrient is required to prevent scurvy?

- A calcium
- B iron
- C vitamin C
- D vitamin D

8. June/2022/Paper_13/No.16

The diagram shows the human alimentary canal, with a string marked in metres beside it.



How long is the small intestine?

- A 2m
- B 6m
- C 8m
- D 9m

9. June/2022/Paper_21/No.13

What is the dietary importance of fibre in humans?

- A for growth and repair of cells
- B to help food move through the alimentary canal
- C to maintain strong bones and teeth
- D to provide energy

10. June/2022/Paper_21/No.14

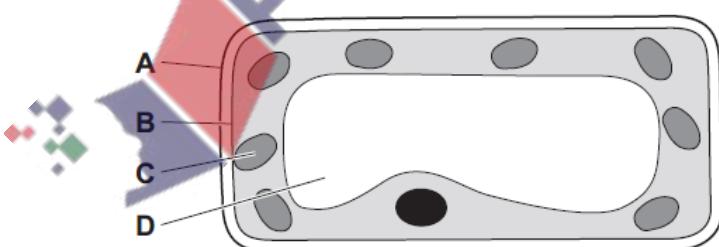
In which part of the alimentary canal does ingestion take place?

- A anus
- B liver
- C mouth
- D stomach

11. June/2022/Paper_23/No.6

The diagram shows a section through a mesophyll cell of a leaf.

Which part is partially permeable?



12. June/2022/Paper_23/No.13

Which nutrient is required to prevent scurvy?

- A calcium
- B iron
- C vitamin C
- D vitamin D

(a) Fig. 3.1 is a diagram showing part of the human alimentary canal and associated organs.

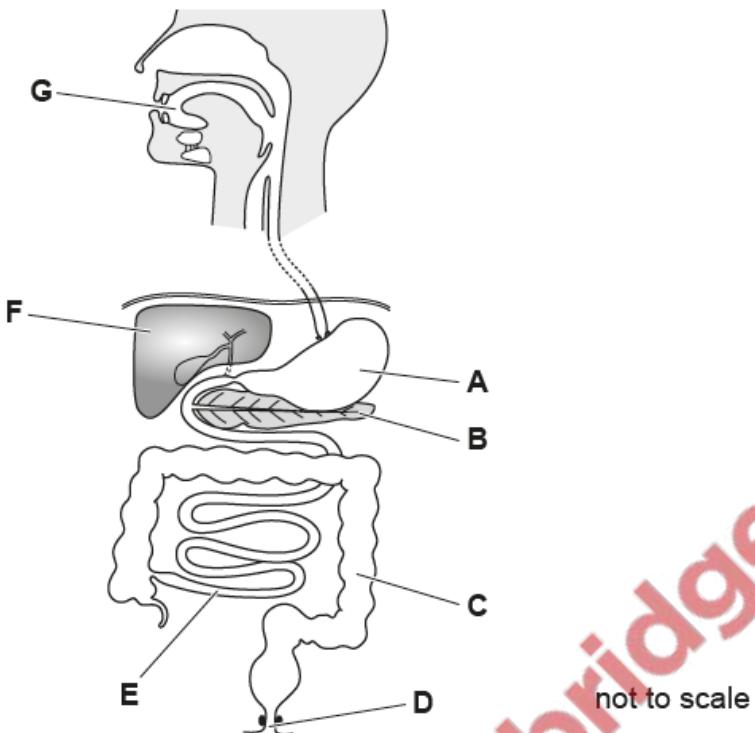


Fig. 3.1

(i) The boxes on the left show three letters from Fig. 3.1 that identify three different organs.

The boxes in the middle show the names of some of the organs in Fig. 3.1.

The boxes on the right show some functions of organs.

Draw **three** lines to link each letter to the name of the organ the letter identifies in Fig. 3.1.

Draw **three more** lines to link these organs to a correct function.

Draw a total of **six** lines.



letter from
Fig. 3.1

name of the organ

function

D

anus

absorption

E

ileum

assimilation

G

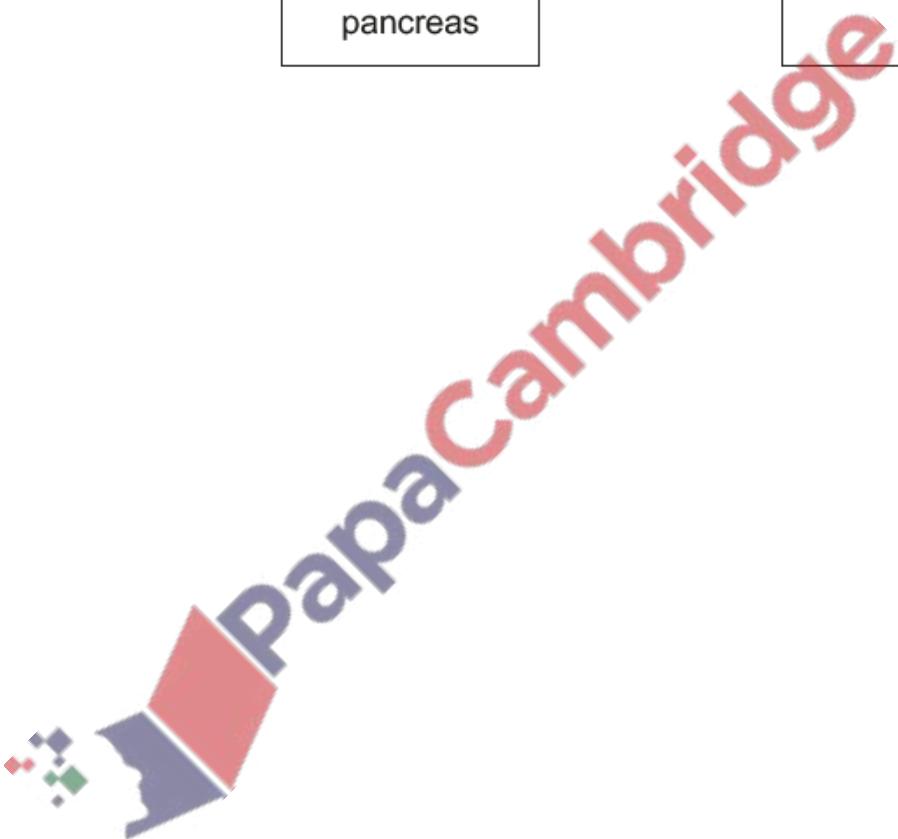
mouth

egestion

pancreas

ingestion

[6]



(ii) State the letter in Fig. 3.1 that identifies the liver **and** outline **one** function of the liver.

letter in Fig. 3.1

function

.....

.....

[2]

(b) Describe the effects of excessive alcohol consumption.

.....

.....

.....

.....

.....

.....

.....

.....

[4]

(c) Protein is a large molecule.

Table 3.1 shows the names of some large molecules, the enzymes that catalyse the breakdown of these large molecules and the smaller molecules they are made from.

Complete Table 3.1 by writing the correct large molecule, enzymes and small molecule in the boxes.



Table 3.1

large molecules	enzymes	small molecules
protein	amino acids
.....	amylase	glucose
fats and oils	fatty acids and

[4]

14. June/2022/Paper_32/No.3(a)

The pancreas is an organ that has roles in the digestive and hormonal systems of humans.

Fig. 3.1 shows part of the alimentary canal and some of the associated organs.

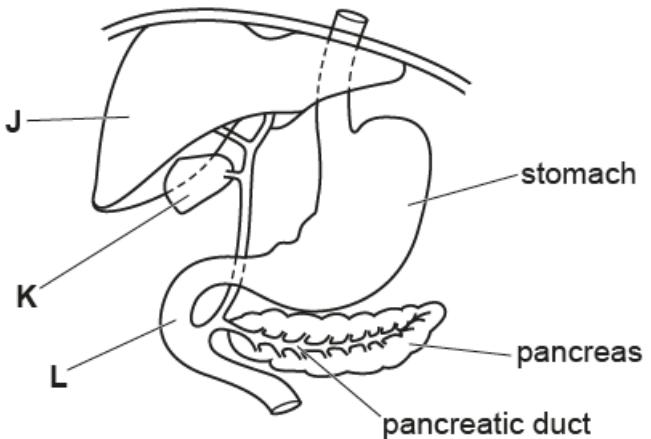


Fig. 3.1

(a) State the names of organs J, K and L.

J

K

L

[3]



(a) Fig. 4.1 is a diagram of the alimentary canal.

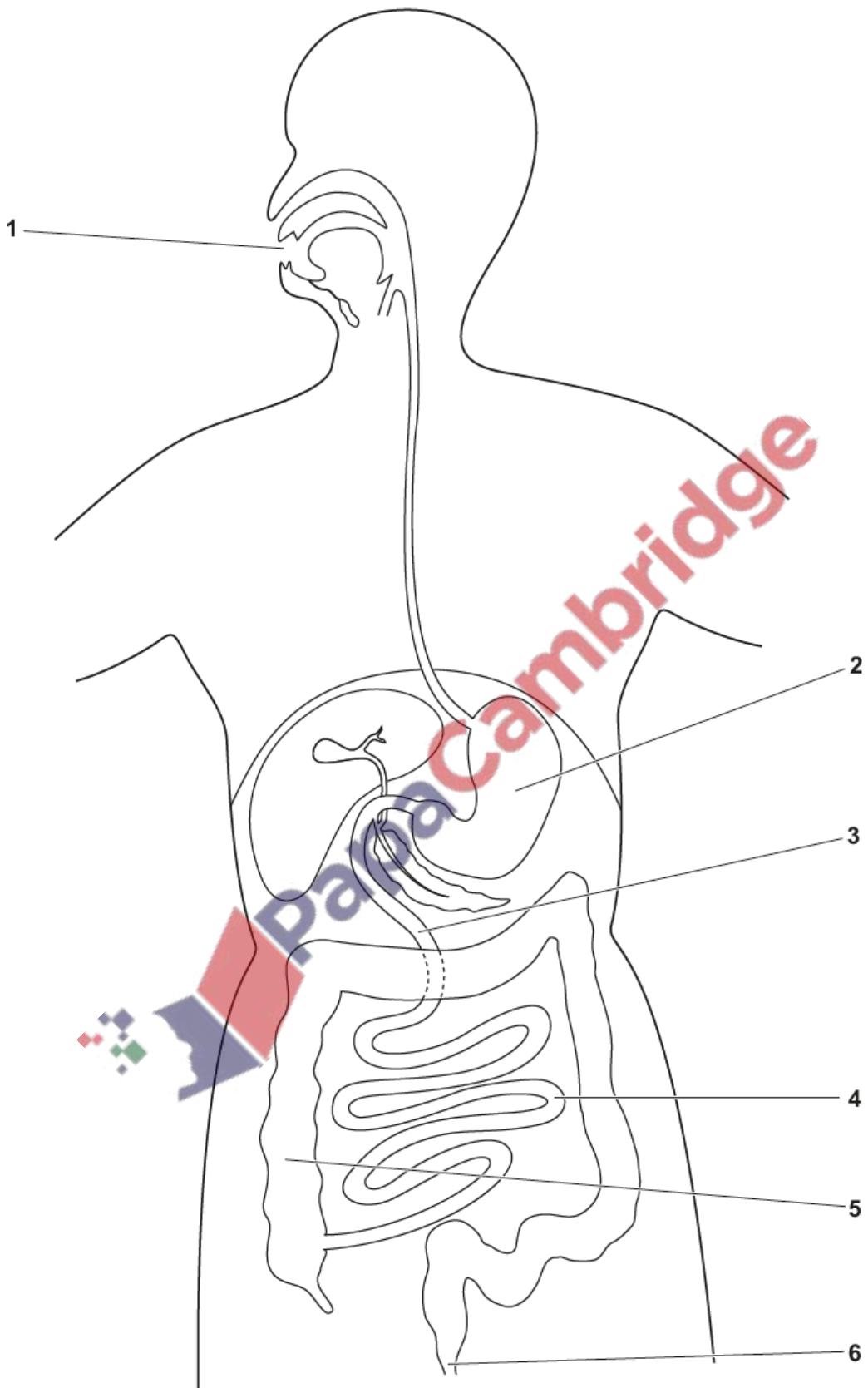


Fig. 4.1

Complete Table 4.1 by stating:

- the names of the organs from Fig. 4.1
- the letters of **all** the processes shown in the key that occur in each organ.

Key:

A – absorption

C – chemical digestion

E – egestion

I – ingestion

M – mechanical digestion

Table 4.1

number from Fig. 4.1	name of the organ	letter or letters of all the processes that occur in the organ
1		
2		
3		
4		
5		
6		

[6]

(b) Fig. 4.2 is a diagram of a villus. The arrow indicates the direction of blood flow.

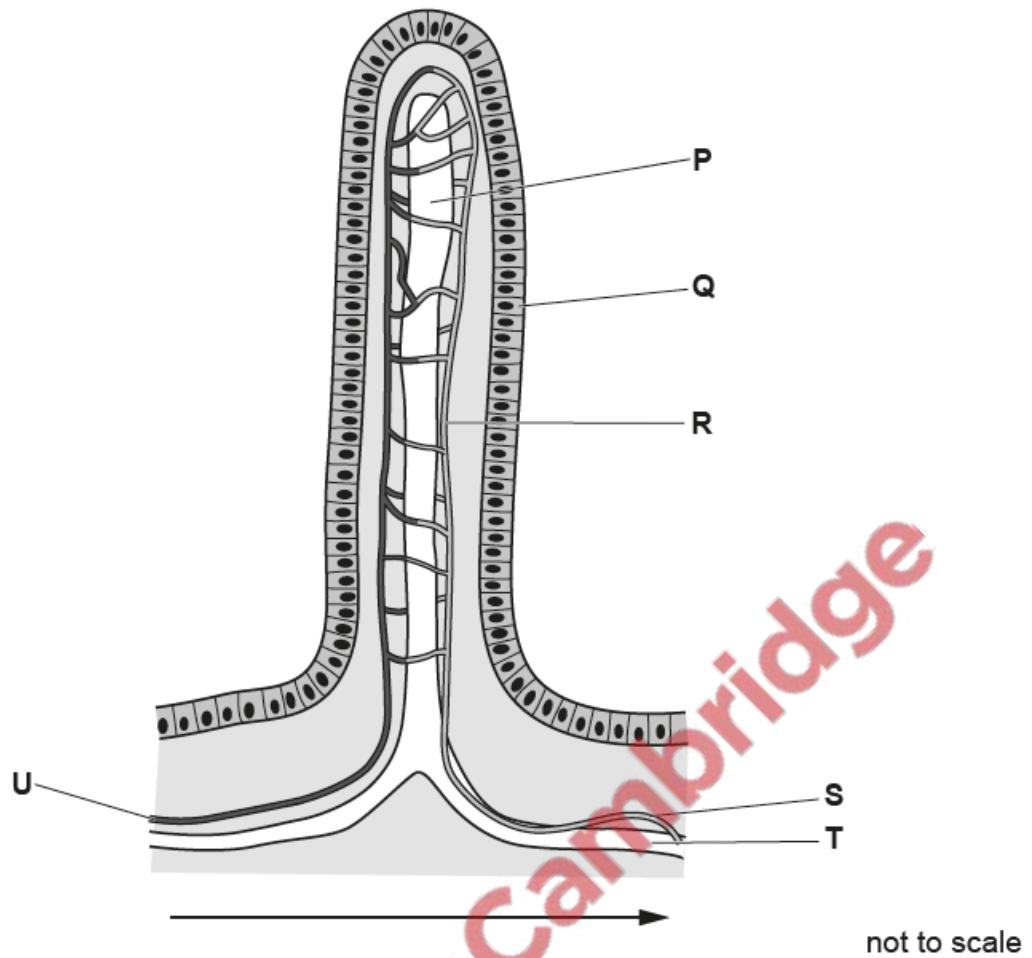


Fig. 4.2

Describe the structure of a villus **and** its role in the alimentary canal.

Use the letters in Fig. 4.2 to support your answer.