

1 (a) Describe what is meant by the term physical digestion.

[2]

(b) Fig. 1.1 is a diagram of the human digestive system.

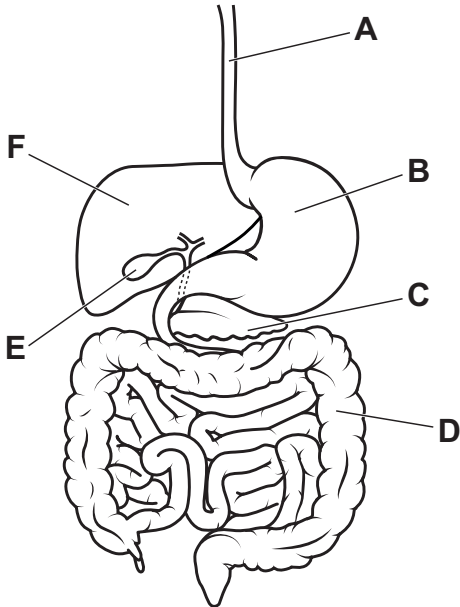


Fig. 1.1

State the letter from Fig. 1.1 that shows one part where:

physical digestion occurs

glucagon is produced

bile is produced.

[3]

(c) Explain the role of bile in physical digestion.

[3]

(d) Physical digestion also occurs in the mouth.

State the names **and** functions of **two** types of human teeth.

1

2

[2]

(e) Fig. 1.2 is a photomicrograph of part of one villus in the small intestine.

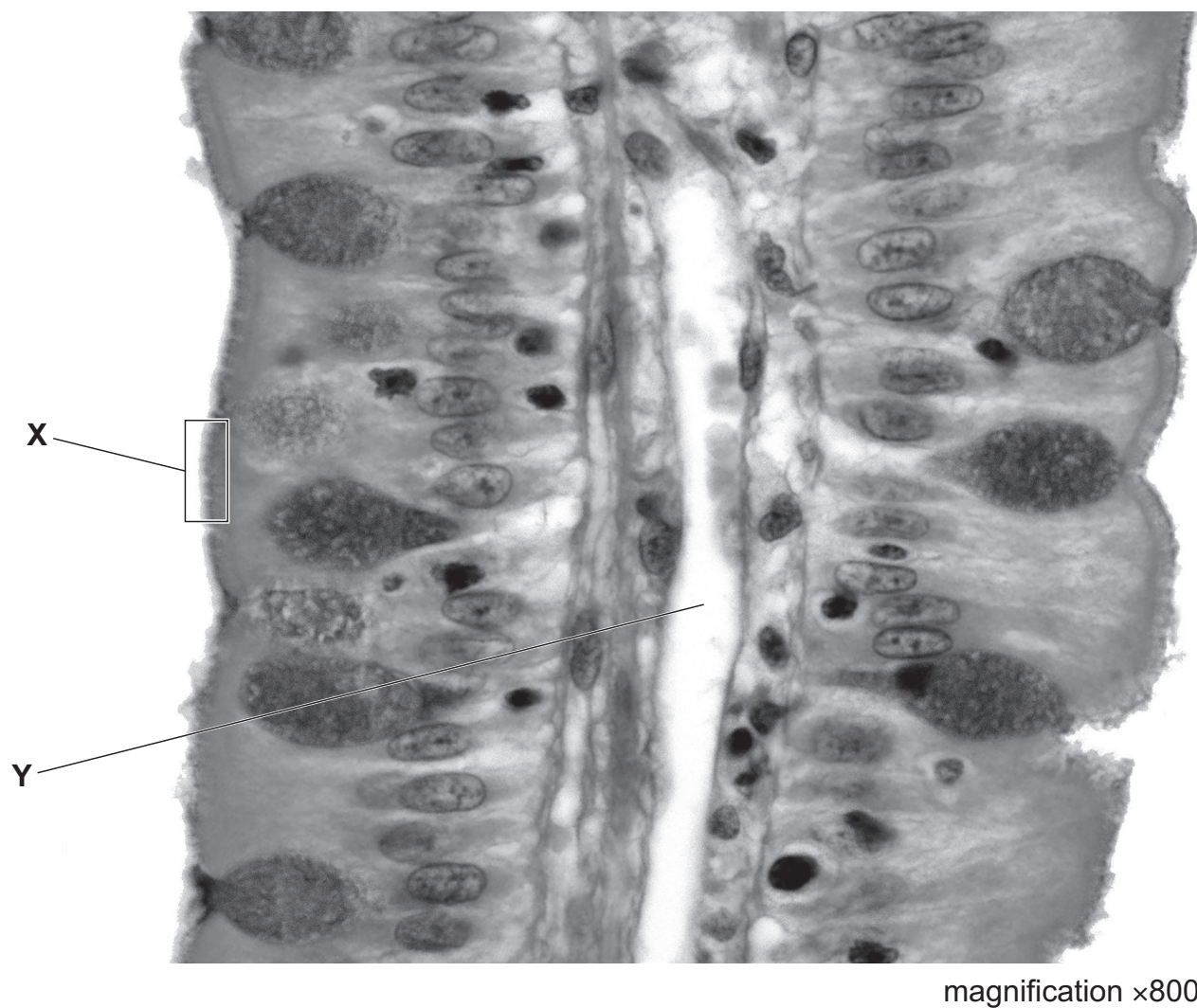


Fig. 1.2

Identify **and** explain the roles of the parts labelled **X** and **Y** in Fig. 1.2.

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..... [4]

[Total: 14]

1 (a) Fig. 1.1 is a diagram of the human digestive system.

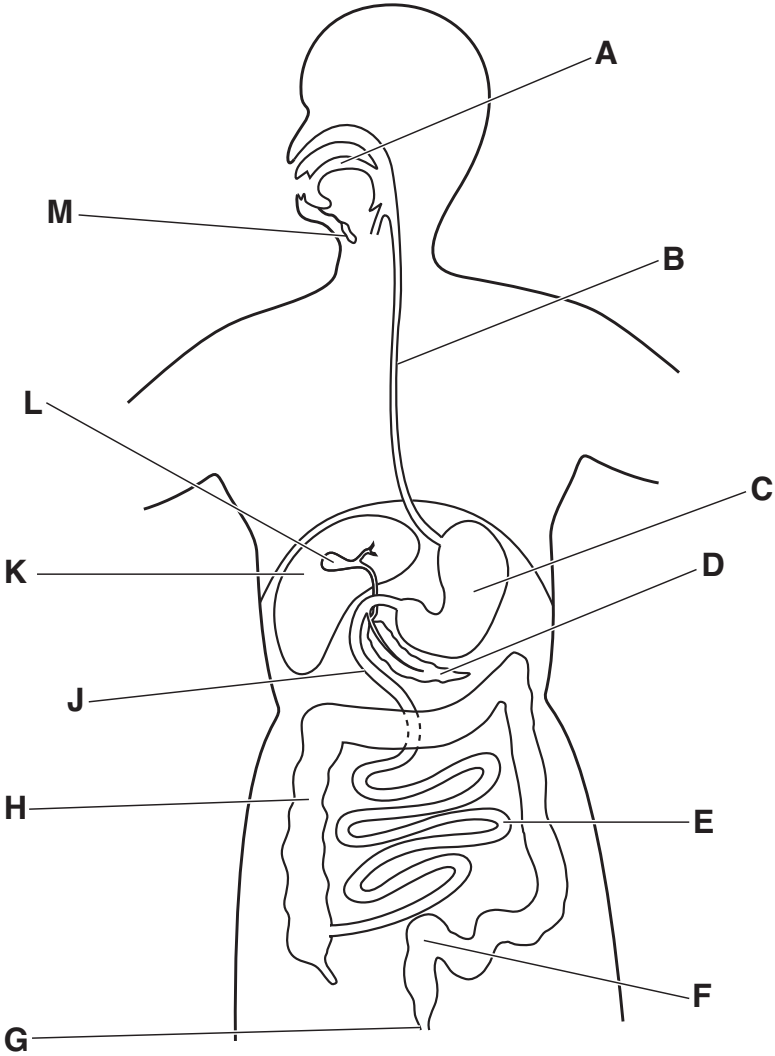


Fig. 1.1

Table 1.1 shows information about some of the structures shown in Fig. 1.1.

Complete Table 1.1, using Fig. 1.1.

Table 1.1

name of the structure	function	letter in Fig. 1.1
		G
	produces amylase	
gall bladder		
	transports food to the stomach	

(b) (i) Describe the role of chemical digestion.

[3]

(ii) Maltose is digested by maltase.

State the name of the product of this reaction.

[1]

(iii) Describe where maltose is digested in the small intestine.

[1]

(iv) Explain why amylase digests starch in the small intestine but does **not** digest starch in the stomach.

[6]

[Total: 15]