

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

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..... [2]

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

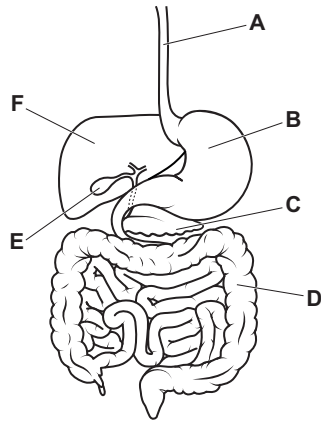


Fig. 1.1

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.

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..... [3]

(d) Physical digestion also occurs in the mouth.

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

1

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2

..... [2]

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

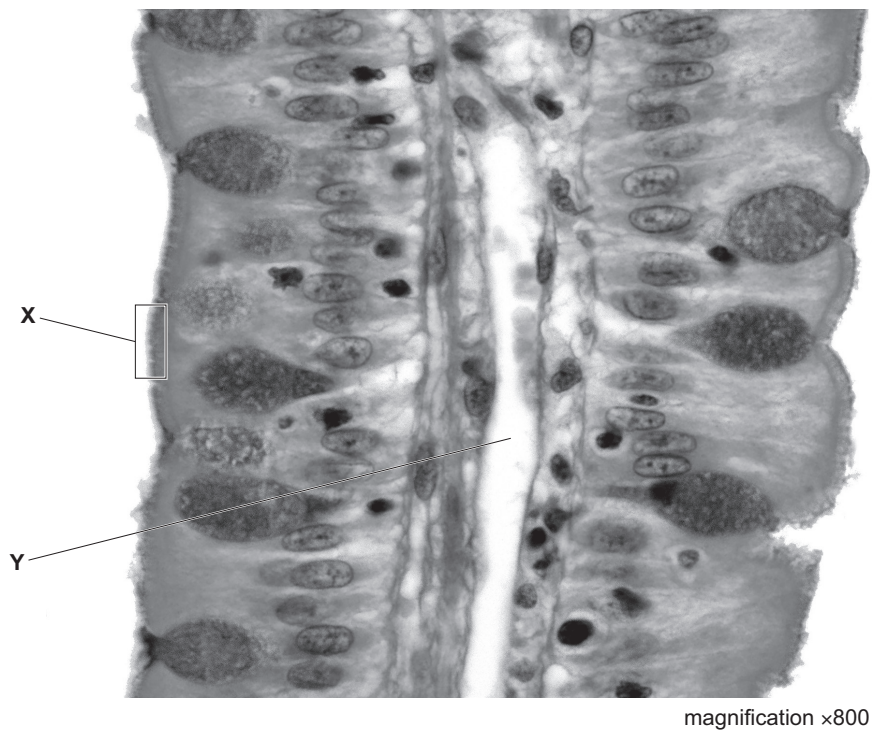


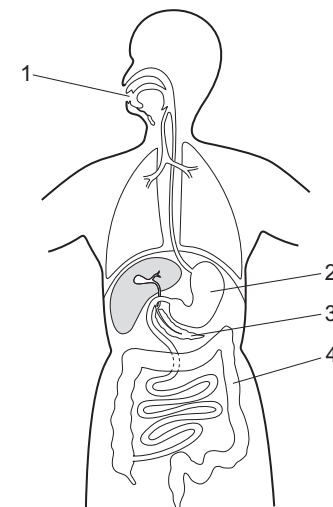
Fig. 1.2

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

[4]

[Total: 14]

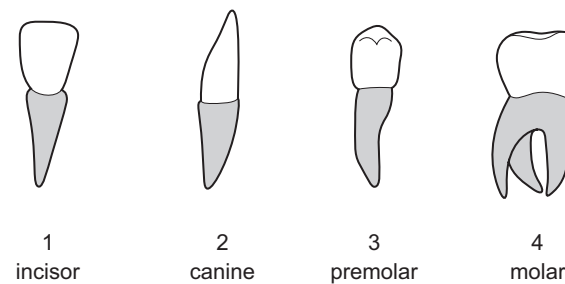
11 In which parts of the digestive system does physical digestion occur?



- A** 1, 2 and 3 **B** 1 and 2 only **C** 2 and 3 only **D** 4 only

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13 The diagram shows the four types of human tooth.



Which teeth are used for grinding food?

- A** 1 and 2 **B** 1 and 4 **C** 2 and 3 **D** 3 and 4