

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.

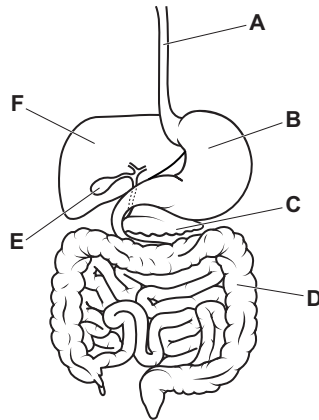


Fig. 1.1

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

.....

2

..... [2]

A black and white micrograph of a histological section of a vertebral body. The image shows the internal structure of the vertebral body, including the vertebral body (X) and the vertebral foramen (Y). The vertebral body is the large, central part of the vertebra, and the vertebral foramen is the opening in the vertebral arch. The image shows the internal structure of the vertebral body, including the vertebral body (X) and the vertebral foramen (Y).

magnification $\times 800$

Fig. 1.2

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

[4]

[Total: 14]

A diagram of the human digestive system. Label 1 points to the mouth. Label 2 points to the stomach. Label 3 points to the small intestine. Label 4 points to the large intestine.

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

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1	2	3	4
incisor	canine	premolar	molar

Which teeth are used for grinding food?

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

④