

NAME: .....

DATE: .....

CLASS: .....

MARKS

10

## Our Body Systems



1. The table below shows the remaining percentage of three types of undigested food, A, B and C, after it passes through each part of the digestive system.

Part of digestive system that undigested food had just passed through	% of undigested food remaining		
	A	B	C
mouth	80	100	100
gullet	80	100	100
stomach	80	60	100
small intestine	20	10	100
large intestine	x	y	z

- (a) What percentage of the three types of undigested food remains in the large intestine? [1m]

x: \_\_\_\_\_

y: \_\_\_\_\_

z: \_\_\_\_\_

- (b) Explain how you deduced the answers in (a). [2m]

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(c) Based on the percentage of undigested food in each part of the system, what can you conclude about the gullet? [1m]

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(d) The organ in which the most digestion takes place is the \_\_\_\_\_ . [1m]

(e) What happens to the food that has been digested? [1m]

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(f) Since food C is not digested at all, Sally concludes that it is not necessary to include it in her diet.

Has Sally done the right thing? Explain your answer. [2m]

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(g) What is a likely consequence of not including C in one's diet? [1m]

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(h) Suggest a possible identity of C. [1m]

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# Our Body Systems



1. (a) x: 20  
y: 10  
z: 100
- (b) Since no digestion takes place in the large intestine, the percentage of undigested food remaining should be the same as that in the small intestine.
- (c) No digestion takes place in the gullet.
- (d) small intestine
- (e) Digested food is absorbed into the bloodstream through the walls of the small intestine. It then travels via the bloodstream to parts of the body that require it.
- (f) No, she has not. Food C constitutes the fibre which is necessary in one's diet to ensure regular bowel movements.
- (g) One will suffer from constipation.
- (h) It is lettuce. (*Accept any other leafy vegetable or fruit as an answer.*)