

IGCSE Biology

Name: _____ Score: _____

1. Which nutrient is mainly needed for growth and repair?
 - ☐ carbohydrate
 - ☐ fat
 - ☐ protein
 - ☐ water
2. Food is moved along the gut by waves of muscle contraction called:
 - ☐ absorption
 - ☐ peristalsis
 - ☐ diffusion
 - ☐ digestion
3. Which teeth are used for cutting?
 - ☐ premolars
 - ☐ incisors
 - ☐ canines
 - ☐ molars
4. Amylase digests:
 - ☐ protein into amino acids
 - ☐ sugar into starch
 - ☐ starch into sugars
 - ☐ fat into fatty acids
5. Most absorption of digested food happens in the:
 - ☐ small intestine
 - ☐ large intestine
 - ☐ mouth
 - ☐ stomach
6. Which nutrients are major energy sources? (Select all that apply.)
 - ☐ vitamins
 - ☐ minerals

☐ carbohydrates

☐ fats

Tick every correct option.

7. Egestion is the removal of undigested food (faeces).

☐ True ☐ False

8. Physical digestion changes the chemical structure of food molecules.

☐ True ☐ False

9. Bile makes the small intestine more acidic so enzymes work faster.

☐ True ☐ False

10. Which adaptations of a villus speed up absorption? (Select all that apply.)

☐ a large surface area

☐ a thin (one-cell) wall

☐ a rich blood supply

☐ a thick, waxy coating

Tick every correct option.

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1. **protein**

Protein builds and repairs tissues.

2. **peristalsis**

Peristalsis squeezes food along the gut.

3. **incisors**

Incisors cut; canines tear; molars and premolars grind.

4. **starch into sugars**

Amylase is a carbohydrase acting on starch.

5. **small intestine**

The small intestine, lined with villi, absorbs digested food.

6. **carbohydrates; fats**

Carbohydrates and fats provide energy; vitamins and minerals do not.

7. **True**

Egestion removes the waste food that was never absorbed.

8. **False**

Physical digestion only makes food smaller; enzymes do the chemical change.

9. **False**

False. Bile is alkaline: it neutralises stomach acid so the enzymes in the small intestine work at their optimum pH. It also emulsifies fats.

10. **a large surface area; a thin (one-cell) wall; a rich blood supply**

A thick coating would slow absorption; the others speed it up.