

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Human Digestive System
Answers

Name:

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Total Marks: /21

Q1: What is the role of the digestive system?

A= Exchange substances with the environment

(1 mark)

Q2: Why does the food we eat need to be broken down?

A= 1 mark for each of the following:

- To form soluble substances
- To be absorbed and used by cells

(2 marks)

Q3: What is the role of the large intestine?

A= 1 mark for each of the following:

- Water absorbed
- From undigested food

(2 marks)

Q4: What is the role of the liver?

A= Produce bile

(1 mark)

Q5: What is the role of pancreas and salivary glands in digestion?

A= Release enzymes to break down food

(1 mark)

Q6: What is the purpose of villi in the small intestine?

A= 1 mark for each of the following:

- Large surface area
- Short diffusion distance
- Take nutrients from food

(3 marks)

Q7: What is the difference between simple and complex carbohydrates.

A= 1 mark for each of following:

- Simple – 1 or 2 sugar units joined together
- Complex – Long chains of simple sugars

(2 marks)

Q8: Discuss the role of lipids in the body.

A= Accept 3 of the following:

- Fats
- Energy store
- Used in cell membranes/ hormones/ CNS
- Insoluble in water

(3 marks)

Q9: Discuss the structure of proteins.

A= 1 mark for each of the following:

- Long Chains
- Amino acids
- Folded to make specific shape

(3 marks)

Q10: Discuss the functions of proteins in the body.

A= Accept any 3 of the following:

- Make up tissues
- Hormones –e.g. insulin
- Antibodies
- Enzymes

(3 marks)