

Biology 12 - Digestion 1 - Key - OUT OF 20 MARKS

- What is digestion? **(1 mark)**
 - Extracellular process in the alimentary canal which includes all the physical and chemical processes that reduce food small, soluble molecules that can be absorbed by cells.*
- What is the difference between digestion and absorption? **(1 mark)**
 - Absorption takes place across the membranes of cells of the small intestine, whereas digestion is purely extracellular. Absorption occurs only after digestion has first broken food into soluble molecules small enough to be absorbed. **(1 mark)***
- Compare the composition of the food we eat with the molecules that our cells actually use.
 - Food is a mixture of large macromolecules of proteins, fats, nucleic acids, and polysaccharides. Our cells actually only use the small molecules which make up these macromolecules (amino acids, glucose, nucleic acids, glycerol, fatty acids). **(1 mark)***
- How many teeth do adults have? What are the four types of teeth and their function? **(2 marks)**

Number of teeth in adults = 32

Name of Tooth	Function
Incisors (8)	Biting
Canines (4)	Tearing
Premolars (8)	Grinding
Molars (12)	Crushing

- Use your tongue to locate at least one of the salivary enzymes on the inside of your mouth.
 - Weird to find them, wasn't it?*
- What is a hydrolytic enzyme? What is the enzyme in saliva? What reaction does it catalyze?
 - An enzyme that reacts water with a substrate to break it down. The enzyme in saliva is SALIVARY AMYLASE. It breaks starch down into the disaccharide MALTOSE. **(1 mark)***
- Using a labelled diagram, explain why when you swallow food or liquid, it doesn't usually go up your nose and down your windpipe.
 - See text for diagram. **(1 mark)***
 - Reason it doesn't go up your nose or down windpipe. Structures in passages cause Air passages to be blocked: **(1 mark)***
 - Soft palate moves back to cover nasopharyngeal openings (so food doesn't go up your nose)*
 - Opening to larynx is called glottis. Flap of tissue called epiglottis sits at top of trachea. When you swallow, trachea moves up under the epiglottis, blocking trachea.*
- Describe the process of peristalsis in the esophagus. How can a combination of circular and longitudinal muscles cause this action?
 - See diagram in text. Circular muscles squeeze tubes, longitudinal muscles contract tubes to move food bolus along in a sequential fashion. **(1 mark)***
- What is the function of the stomach?
 - Receives and temporarily stores food to be digested. Churns food to mechanically break it down, and produces pepsin which breaks proteins into peptides. **(1 mark)***
- What is gastric juice? Where is it produced? What is it composed of? What does it do?
 - A digestive juice containing enzymes, and which is produced by glands in the stomach mucosal lining. **(1/2 mark)** Contains pepsinogen and HCl. **(1/2 mark)** Pepsinogen and HCl combine to produce Pepsin, a hydrolytic enzyme that breaks proteins into peptides. **(1 mark)***
- How is the structure of the stomach related to its function? **(any 4 of these reason = 1/2 mark each, for a total of 2 marks)**
 - Muscular and flexible so that it expands so it can store food.*
 - Three layers of muscles serve to churn the food.*
 - Glands produce gastric juice for breaking down proteins.*

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Clifford Lane



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Table of Contents Biology 12 Digestion Study Guide Answer Key Raycroft

1. Understanding the eBook Biology 12 Digestion Study Guide Answer Key Raycroft
 - The Rise of Digital Reading Biology 12 Digestion Study Guide Answer Key Raycroft
 - Advantages of eBooks Over Traditional Books
2. Identifying Biology 12 Digestion Study Guide Answer Key Raycroft
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biology 12 Digestion Study Guide Answer Key Raycroft
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biology 12 Digestion Study Guide Answer Key Raycroft
 - Personalized Recommendations
 - Biology 12 Digestion Study Guide Answer Key Raycroft User Reviews and Ratings

- Biology 12 Digestion Study Guide Answer Key Raycroft and Bestseller Lists
- 5. Accessing Biology 12 Digestion Study Guide Answer Key Raycroft Free and Paid eBooks
 - Biology 12 Digestion Study Guide Answer Key Raycroft Public Domain eBooks
 - Biology 12 Digestion Study Guide Answer Key Raycroft eBook Subscription Services
 - Biology 12 Digestion Study Guide Answer Key Raycroft Budget-Friendly Options
- 6. Navigating Biology 12 Digestion Study Guide Answer Key Raycroft eBook Formats
 - ePub, PDF, MOBI, and More
 - Biology 12 Digestion Study Guide Answer Key Raycroft Compatibility with Devices
 - Biology 12 Digestion Study Guide Answer Key Raycroft Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biology 12 Digestion Study Guide Answer Key Raycroft
 - Highlighting and Note-Taking Biology 12 Digestion Study Guide Answer Key Raycroft
 - Interactive Elements Biology 12 Digestion Study Guide Answer Key Raycroft
- 8. Staying Engaged with Biology 12 Digestion Study Guide Answer Key Raycroft
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biology 12 Digestion Study Guide Answer Key Raycroft
- 9. Balancing eBooks and Physical Books Biology 12 Digestion Study Guide Answer Key Raycroft
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biology 12 Digestion Study Guide Answer Key Raycroft
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biology 12 Digestion Study Guide Answer Key Raycroft
 - Setting Reading Goals Biology 12 Digestion Study Guide Answer Key Raycroft
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biology 12 Digestion Study Guide Answer Key Raycroft
 - Fact-Checking eBook Content of Biology 12 Digestion Study Guide Answer Key Raycroft
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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