

Below are concise yet comprehensive answers to each of the 23 questions, covering the key points from invertebrate biology:

1. What defines an invertebrate, and why do they make up over 95% of animal species?

- **Definition:** Invertebrates are animals that **lack a vertebral column** (backbone).
- **Why so many:**
 - 1 **Evolutionary success:** Their body plans (e.g., exoskeletons, simple body cavities) allow them to occupy diverse habitats.
 - 2 **Rapid reproduction and high adaptability** help them proliferate quickly.
 - 3 Many invertebrate lineages originated early in animal evolution, accumulating countless species over time.

2. What are the main characteristics of ctenophores, and how does having a complete digestive system give them an advantage in their marine environment?

- **Main Characteristics:**
 - **Marine organisms** with fewer than 100 known species.
 - **Eight rows of cilia ("combs")** for propulsion.
 - **Two long, sticky tentacles** (without stinging cells) for capturing prey.
 - **Often bioluminescent and hermaphroditic.**
- **Complete Digestive System Advantage:**
 - Possessing a **mouth, gastrovascular cavity, and anal pores** enables **continuous feeding and efficient nutrient processing**, allowing them to handle larger prey and maintain a higher metabolic rate.

3. Describe the structure of a sponge, focusing on the roles of choanocytes and amoebocytes.

- **Basic Structure:**
 - Sponges are **multicellular** but **lack true tissues**. They have an internal cavity (**spongocoel**) and an opening at the top called the **osculum**.
- **Choanocytes (Collar Cells):**
 - **Line the spongocoel** and use **flagella** to create a water current.
 - **Trap and ingest** food particles (bacteria, plankton) via **phagocytosis**.
- **Amoebocytes:**
 - **Move within the mesohyl** (gel-like layer).
 - **Digest and distribute** nutrients from choanocytes to other cells.
 - **Secrete structural components** (e.g., **spicules** or **spongin**).

4. How do sponges reproduce both sexually and asexually?

Invertebrate Study Guide Answers

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