



Musculoskeletal System

Answer Key

1. **Answer:** D

Explanation: There are three main types of skeletons found in animals: **hydrostatic skeletons**, **exoskeletons**, and **endoskeletons**.

2. **Answer:** D

Explanation: Muscles are connected to bones by tendons.

3. **Answer:** D

Explanation: Actin and myosin comprise thick and thin filaments. Together, these filaments comprise the horizontal patterns or the striations, which are the sarcomere.

4. **Answer:** B

Explanation: Hinge joints allow for movement in a single direction such as those in our elbows and knees.

5. **Answer:** A

Explanation: The structure of a sarcomere relates to its function: when a sarcomere contracts, its thin filaments slide along its thick filaments which is how muscle contraction fundamentally performs. **Contraction shortens the sarcomere** without changing the lengths of thick and thin filaments with myosin acting as the engine of the movements.



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