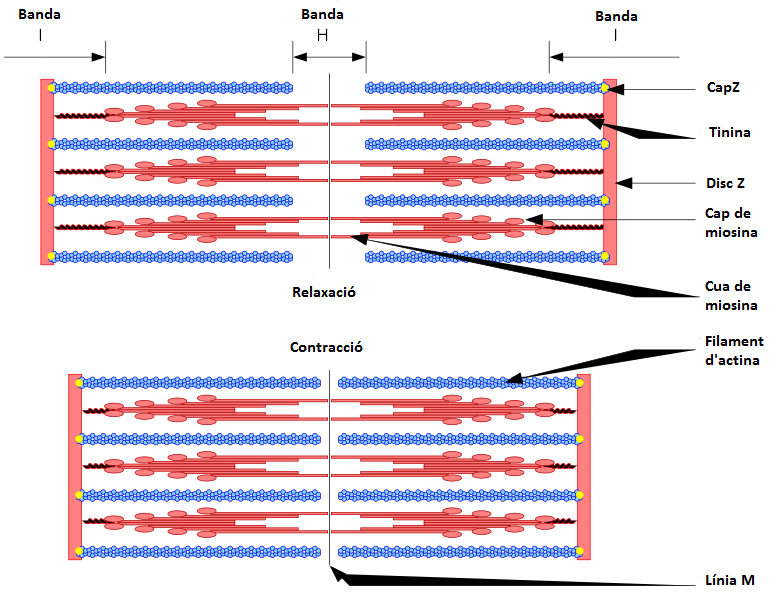
Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_



A B C D E

**For questions 1-5, refer to the above diagram and choose ALL correct answers (there may be one or many)**

1. What letter(s) above represent an area where an **H zone** is present?
2. What letter(s) above represent an area where a **Z disk** is present?
3. Between \_\_\_\_\_ and \_\_\_\_\_ represent **one sarcomere**.
4. What letter(s) above represent an area where a **thick filament** is present?
5. What letter(s) above represent an area where a **thin filament** is present?

**For the following questions, there is only one answer.**

1. What abbreviation represents a dark band?

a. D

b. A

c. L

d. I

e. O

1. What abbreviation represents a light band?

a. D

b. A

c. L

d. I

e. O

1. Which of the following is in order from largest to smallest?
   1. Muscle Tissue, Myofibril, Muscle Cell, Myofilament
   2. Muscle Tissue, Myofibril, Myofilament, Muscle Cell
   3. Muscle Tissue, Myofilament, Muscle Cell, Myofibril
   4. Muscle Tissue, Muscle Cell, Myofibril, Myofilament
   5. Muscle Tissue, Muscle Cell, Myofilament, Myofibril
2. Nuclei exist…
   1. Just below the sarcomere
   2. Just below the sarcolemma
   3. Between the myofibrils
   4. Between the microfilaments
   5. Between the muscle cells
3. One skeletal muscle cell contains…
   1. No sarcomeres
   2. One sarcomere
   3. Many sarcomeres

**For the following questions, choose ALL correct answers (there may be one or many).**

1. Thick filaments…
   1. Are made of myosin
   2. Are made of actin
   3. Contain ATPase enzymes
2. Thin filaments…
   1. Are made of myosin
   2. Are made of actin
   3. Contain ATPase enzymes
3. Which of the following physically changes shape (stretches or shrinks) when muscles contract/relax?
   1. Thin filaments
   2. Thick filaments
   3. Neither physically change shape