

# MSS – physiology

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## Archive

### Lecture 1

#### PHYSIOLOGY OF MUSCLE I

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# physiology - lecture (1)

Which of these covers the active site of action :

- A- Troponin C.
- B- Troponin I.
- C- Tropomyosin.
- D- Troponin T.
- E- Calmodulin.

Answer: C

One of the following is the function of troponin C :

- A- Binding with calcium ions for contraction.
- B- Inhibit binding of actin and myosin.
- C- Binds troponin to tropomyosin to close active sites.

Answer: A

Which one of the following protein responsible for connect thick filament to Z disk :

- A- Titin.
- B- Nebulin.
- C- Myomesin.
- D-  $\alpha$ -Actinin.
- E- Troponin.

Answer: A

The distance between z-lines is equivalent to the length of the :

- A- M line.
- B- A band.
- C- Sarcomere.
- D- H band.

Answer: C

# physiology - lecture (1)

Which of these covers the active site of actin:

- a) troponin C
- b) troponin I
- c) tropomyosin
- D) troponin T
- E) calmodulin

Answer: C

Sarcomere is:

between 2 z discs

Muscle fibers type for bicycle race :

- A) White
- B) red

Answer: B

Which of the following is the line bisects the sarcomeres

- A- I band
- B- A band
- C- Z line
- D- M line
- E- H zone

Answer: C

Which has more myoglobin?

- A- red fiber
- B- rapid fiber

Answer: A

The H zone

- a) Is divided by M line
- b) Contains only actin

Answer: A

# physiology - lecture (1)

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Troponin C bind to:

- A- Ca
- B- Na
- C- none

Answer : A

Thin dark line across the center of the H zone of a striated muscle fiber:

- A- M line
- B- Z line
- C- H band
- D- I band

Answer : A