## Report

PHSI2X05 - Integrated Physiology A Course Lesson Skeletal Muscle – Pre-Practical Student email wliu9927@uni.sydney.edu.au

## Quiz

1. Which is true regarding skeletal muscle studied under conditions where the length is held constant?
O It is said to be under isotonic conditions.
O The total force generated will not be affected when the muscle is changed to a different fixed length.
It is said to be under isometric conditions.
2. Which statement is true regarding the strength of contraction of a whole skeletal muscle?
O It is unaffected by stimulus frequency.
It is increased by stimulus strength up to some maximum.
O It is not dependent on the total number of muscle fibers.
<b>3.</b> A contraction where the muscle becomes shorter is isometric :
• False
O True
<b>4.</b> Static exercise involves isometric contractions:
O False
• True
<b>5.</b> In an isotonic contraction the force generated remains the same throughout the movement of the load:
O False
• True

<b>6.</b> Active for	ce is generated by the powerstroke:
False	
True	
<b>7.</b> Passive fo	rce is a by-product of the crossbridge cycle:
<ul><li>False</li></ul>	
O True	
8. Passive fo	rce may be present even in the absence of a stimulus:
O False	
True	
<b>9.</b> Active for	ce is the reading of the force generated before stimulation:
<ul><li>False</li></ul>	
O True	
<b>10.</b> Passive f	orce is a combination of parallel and series elastic components:
O False	
<ul><li>True</li></ul>	
<b>11.</b> Resting r	nuscle length and optimal muscle length can be used interchangeably:
<ul><li>False</li></ul>	

<b>12.</b> Following delivery of a maximal stimulation, the muscle set to optimal length will produce maximal force of contraction.
O False
• True
<b>13.</b> Passive force begins to be generated when the muscle is at resting length:
O False
<ul><li>True</li></ul>
<b>14.</b> The sarcomere is the same as the sarcoplasmic reticulum:
• False
O True
<b>15.</b> Myosin proteins have ATPase activity in the head section of the molecule:
O False
<ul><li>True</li></ul>
<b>16.</b> An ATPase is an enzyme that uses ATP as an energy source by hydrolysing it into ADP and inorganic phosphate:
O False
<ul><li>True</li></ul>
Evaluation
In a few words indicate what you most enjoyed in this Pre-Practical:
the reading and pictures

In a few words indicate what could be improved in this Pre-Practical:

more words, less pictures,

i would also like a few extra journal articles referenced and linked in this

just so i can lern mor hehe ^\_^



