

Answer **ONE** of the following questions:

1. What are the cellular mechanisms by which acidosis and lactate contribute to muscle fatigue?
2. a) Clearly describe and b) indicate the implications (big picture conclusion) of the Setchenov phenomenon.
3. Discuss the various organelles and proteins involved in intracellular calcium homeostasis and how they may be involved in muscle fatigue.
4. Is the loss of ATP or CP linked to muscle fatigue? Describe the factors/relations that could affect the energy release from ATP hydrolysis?
5. Describe catastrophe theory. How do the numerous potential causes of fatigue discussed in the text agree (or disagree) with this theory?
6. Describe the evidence that motorneurons do (or do not) play a role in fatigue.