Namo	e :	Date:
War	m-U	p: Skeletal Muscle Activity B (pp 188-195)
Mult	iple (Choice: Identify the choice that best completes the statement or answers the question.
	1.	Isometric contractions produce: (p 195) (a) contractions (b) movement (c) muscle shortening (d) contractions and movement, but not shortening (e) contractions and shortening, but not movement
	2.	Anaerobic glycolysis occurs without: (p 194) ATP © carbon dioxide © oxygen © lactic acid
	3.	Which of these pathways is the fastest way to regenerate ATP during muscle activity: (p 194) (a) direct phosphorylation of ADP by creatine phosphate (b) aerobic respiration (c) anaerobic glycolysis and lactic acid formation (d) oxidative phosphorylation (e) both aerobic respiration and anaerobic glycolysis
True	/False	e: Indicate whether the statement is true or false.
	4.	The neurotransmitter used by the nervous system to activate skeletal muscle cells is acetylcholine. (p. 188)
	5.	The effect of the neurotransmitter on the muscle cell membrane is to temporarily modify its permeability of ions such as Na $+$ and K $+$. (p 190)
	6.	When a muscle fiber contracts, the I bands diminish in size, the H zones disappear, and the A bands move closer together but do not diminish in length. (p 191)
	7.	A muscle twitch results when the muscle is stimulated so rapidly that no evidence of relaxation is seen. (p 192)
	8.	Aerobic respiration requires the use of oxygen to generate ATP. (p 193)
	9.	Oxygen debt promotes lactic acid accumulation on muscles from anaerobic cellular respiration.(p 194)
	10.	A sustained partial contraction of skeletal muscle is called muscle tone. (p 195)

Name:		Skeletal Musc	le Activity
Matching			
	Match the following:		
	a enzymesb calcium ions	naerobic respirationpotassium ions	
	© creatine phosphateD acetylcholinesteraseE acetylcholine	 aerobic respiration sodium ions	
11.	Chemical that serves as the actual "go"	' signal for muscle contraction. (p 187)	
12.	Neurotransmitter substance released at motor end plates by the motor neuron. (p 188) Chemical stored in the sarcoplasmic reticulum ((p 187/p 191)		
13.			
14.	A metabolic pathway that produces war of ATP per glucose because oxygen is	ater, carbon dioxide, and ATP, and provides for a used. (p 193)	large amount

15. A reserve, high-energy compound used to convert ADP to ATP by the transfer of a high-energy

phosphate group. (p 193)

16. Enzyme that breaks down acetylcholine (ACh). (p 189/p 190)