Unit Qu	niz - Heat Treating	
Multiple Identify th	Choice he choice that best completes the statement or	r answers the question.
1	Which of the following is not a common qua. Molten Saltb. Water	quenching media? c. Carbon d. Air
2	 Which of the following is NOT used as a n a. Controlled atmosphere furnace b. Allotropism 	method of heating steel for heat treating? c. Torch d. Induction
3	This hard, brittle structure is formed whena. Austeniteb. Martensite	a carbon-rich steel is quenched rapidly. c. Pearlite d. Ferrite
4	This is a laminar (layered) structure of ferr slowly.a. Austeniteb. Martensite	c. Pearlite d. Ferrite
5	This structure (also known as alpha iron) isa. Austeniteb. Martensite	is soft and ductile. c. Pearlite d. Ferrite
6	This structure is FCC and easily absorbs caa. Austeniteb. Martensite	carbon. It is the gamma phase on the iron-carbon phase diagram. c. Pearlite d. Ferrite
7	This is a procedure for determining how dea. Rockwell C Scaleb. Jominy end-quench hardenability test	c. Charpy impact test
8	Which of the following are ways to hardena. Selective surface heatingb. Changing surface chemistry	n only the surface of a component? c. Carburizing & Nitriding d. All of the above
9		mediatly after quenching. It involves reheating the metal to particles of cementite. Helps restore toughness, and reduces the c. Tempering (or drawing) d. Annealing
10	concentration. Increases toughness and all	ite to spherical shapes. Makes the steel less prone to stress llows cold working. It is accomplished by "soaking" a steel at a emperature (eutectoid temp) for an extended period of time. c. Spheroidizing d. Process annealing

Name: ______ Class: ______ Date: _____

ID: A