Quizlet

161	Multiple choice questions				
the ability of a material to withstand shock loading (opposite to brittleness)					
	a. toughness				
	b. steel				
	c. voltage				
	d. polymer				
2.	2. a hard phase produced when steel is cooled from the hardening temperature at a speed greater than its critical cooling rate, martensite is an acicular (needle-like) phase when seen under microscopic examination				
	a. martensite				
	b. voltage				
	c. steel				
	d. pearlite				
3.	involves the movement of planes of atoms moving relative to each other				
	a. steel				
	b. slip				
	c. pearlite				
	d. voltage				
4.	 a phase of carbon steel and cast iron consisting of ferrite and cementite formed into distinct layers (or lamellae) on slow cooling from austenite 				
	a. pearlite				
	b. martensite				
	c. slip				
	d. polymer				
5.	a giant molecule based on carbon				
	a. voltage				
	b. vector				
	c. slip				
	d. polymer				
6.	the amount of energy required to move a small electric charge along a path				
	a. vector				
	b. slip				
	c. voltage				

d. polymer

7.	7. involves the use of a variety of rates of cooling to cause a steel to harden; media include water, brine and		
	a.	tempering	
	b.	pearlite	
	c.	quenching	
	d.	vector	
8	raha	ating of a quenched steel to a sub-critical temperature in order to improve ductility and toughness	
0.		tempering	
		steel	
		quenching	
		vector	
	u.	veccoi	
9.	conta	ains no, or minimal, iron	
	a.	tempering	
	b.	vector	
	C.	polymer	
	d.	non-ferrous	
10.		n three forces act on a body and the body is in a state of equilibrium, then the three forces must be concurrent, ney will all intersect a common point	
		transformer	
	b.	three force rule	
	c.	work hardening	
		tempering	
11.		esult of a plastic or permanent deformation of the crystal structure	
		normalising	
		quenching	
	C.	work hardening	
	d.	tempering	
12.	the v	work or energy per unit charge needed to move an electron from one point to another; measured in volts	
	a.	polymer	
	b.	potential difference	
	c.	non-ferrous	
	d.	work hardening	

13.	redu	duce or increase the voltage of an alternating current			
	a.	steel			
	b.	tempering			
	c.	transformer			
	d.	polymer			
14.	wher	a quantity has a magnitude, direction and sense e.g. displacement, velocity, acceleration			
	a.	steel			
	b.	vector			
	C.	voltage			
	d.	polymer			
15.	an alloy of iron and up to 2% carbon often with other additions of other alloying elements such as manganese, silicon, chromium, nickel and molybdenum				
	a.	polymer			
	b.	vector			
	c.	steel			
	d.	slip			
16.		at treatment process for ferrous alloys involving heating the material above the upper critical temperature then ng in still air, the objective being to enhance toughness by refining grain size			
	a.	tempering			
	b.	work hardening			
	c.	quenching			
	d.	normalising			