Quizlet

24 Multiple choice questions

- 1. a non-magnetic solid solution of carbon in iron
 - a. ferrite
 - b. **CORRECT:** austenite
 - c. eutectoid
 - d. cementite
- 2. a hard, brittle iron carbide compound with the formula Fe3C, found in carbon steel
 - a. austenite
 - b. inertia
 - c. ferrite
 - d. CORRECT: cementite
- 3. the resistance to the relative motion (sliding or moving) between surfaces in contact
 - a. inertia
 - b. **CORRECT:** friction
 - c. inductor
 - d. fibre
- 4. an area of a vehicle that is designed to compress during an accident to absorb the energy from the impact
 - a. duralumin
 - b. CORRECT: crumple zone
 - c. cementite
 - d. impedance
- 5. a slender thread of a natural or synthetic material, such as optical or carbon fibres
 - a. ferrous
 - b. **CORRECT:** fibre
 - c. ferrite
 - d. diode

direct current
a. CORRECT: DC
b. fibre
c. AC
d. diode
the tendency of a body to persist in its state of rest or uniform (unaccelerated) motion in a straight line unless acted upon by a net (unbalanced) external force
a. ferrous
b. CORRECT: inertia
c. inductor
d. ferrite
iron based
a. alloy
b. CORRECT: ferrous
c. ferrite
d. fibre
a series of tests undertaken while machinery is operating to assess conformance within specified operating criteria
a. cementite
b. CORRECT: condition monitoring
c. conductor
d. capacitor
the dimensionless ratio of the friction resistive force and the normal force pressing two bodies together
a. friction
b. condition monitoring
c. CORRECT: coefficient of friction
d. cementite

11.	a piece of equipment providing inductance (electromagnetic induction) in a circuit or other system
	a. capacitor
	b. inertia
	c. conductor
	d. CORRECT: inductor
12.	a device consisting of two conducting surfaces separated by an insulator for accumulating and holding an electric charge when voltage is applied
	a. alloy
	b. conductor
	c. CORRECT: capacitor
	d. inductor
13.	a mixture of two or more elements, at least one of which is a metal usually formed by melting
	a. fibre
	b. AC
	c. CORRECT: alloy
	d. anneal
14.	the trade name of an aluminium alloy containing varying degrees of copper, manganese and magnesium
	a. friction
	b. CORRECT: duralumin
	c. ferrous
	d. alloy
15.	glass produced by slow cooling to remove internal stress; it can be cut to size
	a. alloy
	b. CORRECT: annealed glass
	c. crumple zone
	d. anneal

16.	the lowest point on an equilibrium phase diagram at which complete transformation from one solid phase to another occurs
	a. conductor
	b. inertia
	c. inductor
	d. CORRECT: eutectoid
17.	a semiconductor device that can act as a conductor if current is moving in one direction or as an insulator when moving in the reverse direction
	a. fibre
	b. AC
	c. CORRECT: diode
	d. DC
18.	a measure in an AC circuit that is equivalent to resistance in a DC circuit a. AC
	b. diode
	c. CORRECT: impedance
	d. inertia
19.	a substance, body or device capable of transmitting electricity, heat or sound
	a. inductor
	b. CORRECT: conductor
	c. capacitor
	d. inertia
20.	to heat to a critical temperature and slowly furnace cool to remove internal stress
	a. fibre
	b. CORRECT: anneal
	c. AC

d. alloy

- 21. body centred cubic (BCC) phase in the iron-carbon phase diagram which may exist in either a low temperature of high temperature form
 - a. cementite
 - b. fibre
 - c. CORRECT: ferrite
 - d. ferrous
- 22. a term applying to any of several processes involving heating metals to controlled temperatures for specific periods of time before cooling them at controlled rates
 - a. ferrite
 - b. cementite
 - c. **CORRECT:** heat treatment
 - d. eutectoid
- 23. a vehicle manufactured in such a way that it is capable of withstanding the effects of a crash
 - a. cementite
 - b. **CORRECT:** crashworthiness
 - c. crumple zone
 - d. ferrite
- 24. alternating current
 - a. DC
 - b. anneal
 - c. alloy
 - d. **CORRECT:** AC