## Quizlet

NAME

## 24 Multiple choice questions

- 1. a non-magnetic solid solution of carbon in iron
  - a. ferrite
  - b. 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. cementite
- 3. the resistance to the relative motion (sliding or moving) between surfaces in contact
  - a. inertia
  - b. 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. 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. fibre
  - c. ferrite
  - d. diode
- 6. direct current
  - a. DC
  - b. fibre
  - c. AC
  - d. diode

- 7. 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. inertia
  - c. inductor
  - d. ferrite
- 8. iron based
  - a. alloy
  - b. ferrous
  - c. ferrite
  - d. fibre
- 9. a series of tests undertaken while machinery is operating to assess conformance within specified operating criteria
  - a. cementite
  - b. condition monitoring
  - c. conductor
  - d. capacitor
- 10. the dimensionless ratio of the friction resistive force and the normal force pressing two bodies together
  - a. friction
  - b. condition monitoring
  - c. 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. 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. 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. alloy
  - d. anneal
- 14. the trade name of an aluminium alloy containing varying degrees of copper, manganese and magnesium
  - a. friction
  - b. duralumin
  - c. ferrous
  - d. alloy
- 15. glass produced by slow cooling to remove internal stress; it can be cut to size
  - a. alloy
  - b. 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. 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. diode
  - d. DC
- 18. a measure in an AC circuit that is equivalent to resistance in a DC circuit
  - a. AC
  - b. diode
  - c. impedance
  - d. inertia

- 19. a substance, body or device capable of transmitting electricity, heat or sound
  - a. inductor
  - b. conductor
  - c. capacitor
  - d. inertia
- 20. to heat to a critical temperature and slowly furnace cool to remove internal stress
  - a. fibre
  - b. 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. 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. 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. crashworthiness
  - c. crumple zone
  - d. ferrite
- 24. alternating current
  - a. DC
  - b. anneal
  - c. alloy
  - d. AC