Quizlet

## 16 Multiple choice questions

1. the ability of material to resist the propagation of cracks; it is often identified as the area under a stre

A+ 100%

- a mass
- b. **CORRECT:** toughness
- c. stiffness
- d. timber
- 2. any measure that has a magnitude only
  - a. mass
  - b. metals
  - c. CORRECT: scalar
  - d. screw
- 3. an alloy of iron and up to 2% carbon, often with additions of other alloying elements such as manganese, silicon, chromium, nickel and molybdenum
  - a. screw
  - b. metals
  - c. CORRECT: steel
  - d. lever
- 4. a polymer that can be softened by heating
  - a. CORRECT: thermoplastic
  - b. thermoset
  - c. pearlite
  - d. metals
- 5. a type of simple machine consisting of a rigid beam pivoting around fulcrum that is used to transmit force
  - a. CORRECT: lever
  - b. steel
  - c. vector
  - d. timber

| 6.  | a.   | terial containing no, or minimal iron lever toughness   |  |
|-----|--|---|--|
|     | c.   | polymer  CORRECT: non-ferrous   |  |
| 7.  |  | materials, typically hard, opaque, ductile, malleable and shiny; they feature good electrical and thermal |  |
|     |  | lever   |  |
|     |  | scalar  |  |
|     |  | mass  |  |
|     |  | CORRECT: metals   |  |
|     | u.   | CORRECT. Metals   |  |
| 8.  | an organic material consisting of thin-walled tubes made of cellulose; the cellulose 'tubes' are bound together with a weak glue called lignin |   |  |
|     | a.   | lever   |  |
|     | b.   | pulley  |  |
|     | c.   | steel   |  |
|     | d.   | CORRECT: timber   |  |
| 9.  | a measure of the amount of matter that an object contains; the unit of this within the SI system is the kilogram (kg)                          |   |  |
|     | a.   | CORRECT: mass   |  |
|     | b.   | timber  |  |
|     | c.   | screw   |  |
|     | d.   | metals  |  |
| LO. |  | m of simple machine used to translate rotary motion into linear motion                                    |  |
|     |  | lever   |  |
|     | b.   | CORRECT: screw  |  |
|     | C.   | steel   |  |
|     | d.   | scalar  |  |
|     |  |   |  |

| Engineering 2 Engineering Fundamentals – Part 2   Quiziet |  |  |  |
|---|--|--|--|
| 11.   | a phase of carbon steel and cast iron consisting of ferrite and cementite formed into distinct layers (or la slow cooling from austenite |  |  |
|   | a. polymer   |  |  |
|   | b. pulley  |  |  |
|   | c. CORRECT: pearlite   |  |  |
|   | d. metals  |  |  |
|   |  |  |  |
| 12.   | a giant molecule based on carbon   |  |  |

- a. CORRECT: polymer
- b. pulley
- c. lever
- d. timber
- 13. the resistance of an elastic body to deflation by an applied force
  - a. steel
  - b. **CORRECT:** stiffness
  - c. toughness
  - d. timber
- 14. any measure that has a magnitude and direction
  - a. CORRECT: vector
  - b. metals
  - c. timber
  - d. lever
- 15. a polymer that can be set by heating but cannot be softened by reheating
  - a. screw
  - b. **CORRECT:** thermoset
  - c. thermoplastic
  - d. timber

- 16. consists of a wheel and an axle arranged by itself or in conjunction with others to operate as a simple machine
  - a. **CORRECT:** pulley
  - b. scalar
  - c. polymer
  - d. screw