



METALLURGICAL ENGINEERING

Q1. Which of the following heat treatments does not affect the chemical composition of the surface?

- Nitriding
- Cyaniding
- Flame hardening
- Carburizing

Q2. The breaking stress of a particular steel is 1.4 GPa. What force will be needed to break a piece of wire of diameter 0.4 mm?

- o 176N
- o 180N
- o 236N
- o 158N

Q3. Machinability of steel containing which of the following elements can be enhanced if the sulphur content is increased?

- o Copper
- Calcium
- o Manganese
- Magnesium

Q4.Which of the following methods detects the crack at the surface of steel?

- Holography
- o Radiography
- Ultrasonic testing
- Eddy current testing

Q5. Which of the following methods determines the crystal structure in metals and alloys?

- Transmission electron microscopy
- Scanning electron microscopy
- Neutron diffraction
- Optical microscopy
- X-ray diffraction



