

# Level I Questions

## Ultrasonic Testing Method

1. The indication on the cathode ray tube (CRT) which represents the far boundary of the material being tested is called:
  - a. hash
  - b. the initial pulse
  - c. the main bang
  - d. the back surface reflection

**HL2-8**
2. In immersion testing, the position of the search unit is often varied to transmit sound into the test part at various angles to the front surface. Such a procedure is referred to as:
  - a. angulation
  - b. dispersion
  - c. reflection testing
  - d. refraction

**F.45.10; HL3-12**
3. The cable that connects the ultrasonic instrument to the search unit is specially designed so that one conductor is centered inside another. The technical name for such a cable is:
  - a. BX cable
  - b. conduit
  - c. coaxial cable
  - d. ultrasonic conductor cable-grade 20

**HL3-13, Fig. 3-9**
4. The process of comparing an instrument or device with a standard is called:
  - a. angulation
  - b. calibration
  - c. attenuation
  - d. correlation

**F.43.37**
5. Another name for a compressional wave is:
  - a. Lamb wave
  - b. shear wave
  - c. longitudinal wave
  - d. transverse wave

**F.43.9; HL2-5**
6. Another name for Rayleigh waves is:
  - a. shear waves
  - b. longitudinal waves
  - c. transverse waves
  - d. surface waves

**HL2-32**
7. A material used between the face of a search unit and the test surface to permit or improve the transmission of ultrasonic vibrations from the search unit to the material being tested is called:
  - a. a wetting agent
  - b. a couplant
  - c. an acoustic transmitter
  - d. a lubricant

**HL3-21**
8. The piezoelectric material in a search unit which vibrates to produce ultrasonic waves is called a:
  - a. backing material
  - b. Lucite™ wedge
  - c. crystal
  - d. couplant

**HL2-7**
9. Ultrasonic testing of material where the search unit is in direct contact with the material being tested may be:
  - a. straight beam testing
  - b. surface wave testing
  - c. angle beam testing
  - d. all of the above

**HL4-7**
10. An advantage of using lithium sulfate in search units is that it:
  - a. is one of the most efficient generators of ultrasonic energy
  - b. is one of the most efficient receivers of ultrasonic energy
  - c. is insoluble
  - d. can withstand temperatures as high as 700 °C (1 260 °F)

**F.44.3; HL3-14**

# Ut Level 1 Study Guide

**M Lipman**



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