

1. When an aerial ladder is under load it creates sound waves. What is the name of a non-destructive test that measures these sound waves?
 - A. acoustical emission testing
 - B. magnetic particle testing
 - C. ultrasonic testing
 - D. Rockwell hardness testing

2. Technician A says: An aerial ladder equipped with a water delivery system must have a relief valve that is capable of protecting the waterway system. Technician B says: The discharge end of the relief valve should be terminated in National Standard Thread. Who is correct?
 - A. Technician A
 - B. Technician B
 - C. Both A and B
 - D. Neither A nor B

3. The value of the maximum rated capacity, used during the horizontal and maximum elevation load tests performed on an aerial ladder, is determined by which of the following?
 - A. local authority
 - B. manufacturer of the aerial apparatus
 - C. National Fire Protection Association (NFPA)
 - D. third party testing agency

4. An oil sample for spectro-analysis must be taken:
 - A. 10 minutes before operational test
 - B. during operation
 - C. after operational testing
 - D. when oil temperature is over 90 degrees F (32.22o C)

5. During an NFPA 1911 annual visual inspection, the lower control valve is found to have oily residue on the exterior surface of a control valve. Technician A says: This condition is a class 1 leak which is acceptable as long as a droplet does not form. Technician B says: Any leak requires that the valve must be repaired or replaced. Who is correct?
 - A. Technician A
 - B. Technician B
 - C. Both A and B
 - D. Neither A nor B