Brakes (A5) Practice Test Questions and Answers

1. Which is the main purpose of a proportioning valve in a brake system?

A) To keep the brake lines filled with fluid when the pedal is released
B) To reduce the rate of pressure increase to the rear brakes during heavy braking
C) To sense a pressure imbalance between the two hydraulic circuits
D) To delay the application of the rear brakes at low pressure

2. Why is copper tubing not acceptable for replacing a steel brake line?

A) It cannot be flared with standard tools
B) It expands too much when heated by the brakes
C) It reacts chemically with DOT 3 brake fluid
D) It work-hardens and cracks from vibration, and it cannot safely withstand brake system pressures

3. Why must a brake fluid container be kept tightly capped when it is not in use?

A) Glycol-based brake fluid absorbs moisture from the air, which lowers its boiling point
B) Brake fluid evaporates quickly and the container would soon be empty
C) Air contact turns the fluid into a petroleum-like substance that swells seals
D) Exposure to light causes the fluid to become thicker and slower to flow

4. What causes the red brake warning lamp to light through a pressure differential switch?

A) A drop in hydraulic pressure in one circuit shifts the valve piston into contact with the switch
B) Fluid pressure rising above the proportioning valve split point
C) The metering valve opening fully at high line pressure
D) Both circuits having equal pressure after a brake application

Answers: 1-B 2-D 3-A 4-A

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