Automotive Brake Systems, 7th Edition
Quiz 16B

Name_____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) Two technicians are discussing vacuum brake boosters. Technician A says that a low, soft brake pedal is an indication of a defective booster. Technician B says that there should be at least two power-assisted brake applications after the engine stops running. Which technician is correct? 1) _____
   A) Technician A only
   B) Technician B only
   C) Both technicians
   D) Neither technician

2) A hydraulically operated booster unit stores fluid under pressure by means of _____. 2) _____
   A) A boost piston
   B) A pressure chamber
   C) An actuator
   D) An accumulator

3) Pushrod adjustment _____. 3) _____
   A) Is accomplished by holding the pushrod stationary and holding a self-locking nut.
   B) Is recommended on ALL models
   C) Should be checked when a new booster is installed
   D) Never needs to be checked

4) As the engine piston moves downward on the intake stroke a _____ is created in the manifold. 4) _____
   A) Gas difference
   B) Pressure differential
   C) Mono-pressure front
   D) Dual-pressure difference

5) In a vacuum booster during the holding phase, both the atmospheric and vacuum control ports are open. 5) _____
   A) True
   B) False

6) A dual-diaphragm vacuum booster allows engineers to design a _____ brake booster 6) _____
   A) Smaller diameter
   B) Lighter weight
   C) Less expensive
   D) Shorter

7) The proper operation of a vacuum brake booster requires that the engine be capable of supplying at least _____. 7) _____
   A) 15 in. Hg vacuum
   B) 17 in. Hg vacuum
   C) 19 in. Hg vacuum
   D) 21 in. Hg vacuum

8) A vacuum is described as any pressure that is higher than atmospheric pressure. 8) _____
A) True
B) False

9) Brake pedal feedback to the driver is provided by the _____. 9) _____
A) Vacuum check–valve operation
B) Reaction system
C) Charcoal filter unit
D) Vacuum diaphragm

10) If the engine stops running, the Hydro–Boost will not be able to provide any power assist for the brakes. 10) _____
A) True
B) False

Answer Key
Testname: BRAKES7_16B

1) B
Page Ref: 297, 299
2) D
Page Ref: 305
3) C
Page Ref: 300
4) B
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5) B
Page Ref: 297
6) A
Page Ref: 298
7) A
Page Ref: 295
8) B
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9) B
Page Ref: 297
10) B
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