Automotive Steering, Suspension, and Alignment, 8th Edition
Quiz 21A

Name_____

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

1) Driveline vibrations due to a bent or out of balance driveshaft on a rear-wheel drive vehicle usually produce a vibration that is _____.
   A) felt in the steering wheel
   B) seen as a vibrating dash or hood
   C) felt in the seat or all over the vehicle
   D) felt by the rear passengers only

2) The rolling circumference of both tires on the same axle of a four-wheel drive vehicle should be within _____.
   A) 0.1 in. (2.5 mm)
   B) 0.3 in. (7.6 mm)
   C) 0.6 in. (15 mm)
   D) 1.2 in. (30 mm)

3) Rubber is used for the exhaust system hangers because the exhaust system gets longer as it gets hot and rubber helps isolate noise and vibration from the passenger compartment.
   A) True
   B) False

4) An engine-related vibration can be best detected by performing a _____.
   A) neutral run-up test
   B) test drive on a rough road
   C) hard acceleration from a stop
   D) Any of the above

5) Technician A says that a vibration felt in the seats may be caused by improper rear wheel balance. Technician B says that a vibration felt in the steering wheel may be caused by a worn clutch throwout bearing. Which technician is correct?
   A) Technician A only
   B) Technician B only
   C) Both technicians A and B
   D) Neither technician A nor B

6) Technician A says that a vibration felt at highway speeds with the transmission in neutral is not likely to be caused by the engine. Technician B says that a vibration felt during acceleration could be due to uneven U-joint angles. Which technician is correct?
   A) Technician A only
   B) Technician B only
   C) Both technicians A and B
   D) Neither technician A nor B

7) A vibration that is felt in the steering wheel at highway speeds is usually due to _____.
A) defective or out–of–balance rear tires
B) defective or out–of–balance front tires
C) an out–of–balance or bent driveshaft on a RWD vehicle
D) an out–of–balance drive axle shaft or defective outer CV joints on a FWD vehicle

8) A driveshaft can be checked for proper balance by marking the circumference of the shaft in four places and running the vehicle drive wheels to spot the point of imbalance using a(n) _____.
A) reed tachometer
B) strobe light
C) electronic vibration analyzer (EVA)
D) scan tool

9) When diagnosing a vibration, technician A asks the customer when the problem first appeared. Technician B says that misaligned engine or transmission mounts can cause vibration. Which technician is correct?
A) Technician A only
B) Technician B only
C) Both technicians A and B
D) Neither technician A nor B

10) Which of these could cause incorrect driveline angles on a rear wheel drive vehicle?
A) Incorrect ride height
B) Mismatched tires
C) Low differential fluid
D) A bad U–joint

Answer Key
Testname: ASSA8_21A

1) C
Page Ref: 373
2) C
Page Ref: 377
3) A
Page Ref: 373
4) A
Page Ref: 375
5) A
Page Ref: 374
6) C
Page Ref: 375
7) B
Page Ref: 373
8) B
Page Ref: 381
9) C
Page Ref: 372
10) A
Page Ref: 380