## Automotive Electrical and Engine Performance 9th Edition Chapter 26 – Engine Condition Diagnosis Multiple Choice Questions Quiz A

1. Which color of exhaust smoke indicates excessive fuel being burned in the combustion chamber?
a) Blue
b) Black
c) White
d) Gray
2. Technician A states that an oil leak can be found using a fluorescent dye with a black light to check for leaks. Technician B states that cleaning the engine with a degreaser helps locate oil leaks. Who is correct?
a) Technician A only
b) Technician B only
c) Both Technicians A and B
d) Neither Technician A nor B
3. Which of the following is least likely to cause engine noise?
a) Carbon on the pistons
b) Cracked exhaust manifold
c) Loose accessory drive belt
d) Vacuum leak
4. Engine oil pressure at 3,500 RPM should be at least:
a) 10 PSI
b) 25 PSI
c) 35 PSI
d) 42 PSI



5. During a running (dynamic) compression test at idle, a good engine should produce a compression reading between:
a) 150 to 200 PSI
b) 100 to 150 PSI
c) 60 to 90 PSI
d) 30 to 60 PSI
6. A cylinder contribution test uses which device to locate a potential weak cylinder?
a) Scan tool
b) DSO (Digital Storage Oscilloscope)
c) DMM (Digital Multimeter)
d) Vacuum gauge
7. Technician A says that in a power balance test, the cylinder causing the smallest RPM drop is the weak cylinder. Technician B says grounding a spark plug wire without an RPM drop indicates a weak cylinder. Who is correct?
a) Technician A only
b) Technician B only
c) Both Technicians A and B
d) Neither Technician A nor B
8. Normal cranking vacuum for an engine should be:
a) 2.5 inch Hg or higher
b) Over 25 inch Hg
c) 17 to 21 inch Hg



- 9. Technician A claims that a leaking head gasket can be identified using a chemical tester. Technician B suggests using an exhaust gas analyzer to find a leaking head gasket. Who is correct?
- a) Technician A only
- b) Technician B only
- c) Both Technicians A and B
- d) Neither Technician A nor B
- 10. The low oil pressure warning light generally comes on when:
- a) An oil change is due
- b) Oil pressure drops dangerously low (4 to 7 PSI)
- c) The oil filter bypass valve opens
- d) The oil filter anti-drain back valve opens



## Automotive Electrical and Engine Performance 9th Edition Chapter 26 – Engine Condition Diagnosis Answer Key Quiz A

## **Correct Answers:**

- 1. b
- 2. c
- 3. d
- 4. c
- 5. c
- 6. a
- 7. c
- 8. a
- 9. c
- 10. b

