

North Montco Technical Career Center

ASE Practice Test 1 Engine Repair

Name: _____

AM-1: _____ AM-2: _____ PM _____

Date: _____

1. A vacuum test is performed on a six-cylinder engine. The gauge pointer is steady at idle but fluctuates excessively at higher speeds. Technician A says this is an indication of weak valve springs. Technician B says this indicates worn valve guides. Who is right?

- (A) A only. (B) B only. (C) Both A and B.
- (D) Neither A nor B.

2. When piston rings are installed upside down, which of the following could happen?

- (A) oil consumption would increase.
- (B) piston ring lands would break.
- (C) cylinder wall wear would increase.
- (D) none of the above.

3. Technician A uses a Plastigage to check main bearing oil clearance. Technician B uses feeler gauge to check main bearing oil clearance. Who is right?

- (A) A only. (B) B only. (C) Both A and B.
- (D) Neither A nor B.

4. An engine consumes too much oil. Technician A says worn valve guides might be the cause. Technician B says tapered cylinder walls might be the cause. Who is right?

- (A) A only. (B) B only. (C) Both A and B.
- (D) Neither A nor B.

5. A power balance test is performed on a four-cylinder engine. The rpm drop in one cylinder is below normal. Technician A says this can be caused by a faulty fuel injector. Technician B says this can be caused by worn piston rings. Who is right?

- (A) A only. (B) B only. (C) Both A and B.
- (D) Neither A nor B.

6. A compression test has been done on an in-line, 6-cylinder engine. The readings on cylinders 3 and 4 are 10 psi. The readings on the other cylinders are between 130 and 135 psi. This could be caused by:

- (A) a blown head gasket.
- (B) worn timing chain.
- (C) wrong valve timing.
- (D) None of the above.

7. During a cylinder leakage test, air is heard escaping from the intake manifold. Technician A says this is caused by a bad intake valve. Technician B says this is caused by bad piston rings. Who is right?

- (A) A only. (B) B only. (C) Both A and B.
- (D) Neither A nor B.

8. A car's exhaust gas is a bluish color. Technician A says tapered cylinder walls may be the cause. Technician B says too much clearance between the valve stems and valve guides may be the cause. Who is right?

- (A) A only. (B) B only. (C) Both A and B.
- (D) Neither A nor B.

9. Valve spring installed height is excessive. Technician A says this will increase spring pressure. Technician B says shims can be used to reduce installed height and return the spring to normal. Who is right?

- (A) A only. (B) B only. (C) Both A and B.
- (D) Neither A nor B.

10. A cooling system pressure test is being performed. Technician A says the system should be pressurized to 50 psi. Technician B says that test pressure should never exceed system-operating pressure. Who is right?

- (A) A only. (B) B only. (C) Both A and B.
- (D) Neither A nor B.