# Skilled Trades

*ASE-A*
*Automotive Service Excellence: Automobile & Light Truck*

**Questions And Answers PDF Format:**

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# Latest Version: 6.0

## Question: 1

A rebound test is being performed. During the test, the steering wheel moves while the vehicle is being bounced.
All of the following could be the cause except:

A. A damaged steering rack
B. A damaged control arm
C. A bent tie rod
D. A worn strut

**Answer: D**

Explanation:
If the steering wheel moves during a rebound test, suspect a bent control arm, bent steering rack, or bent tie rod. Worn struts would be indicated by lack of suspension dampening on the first rebound of the test.

## Question: 2

A gear set has 24 teeth on the driven gear and 8 teeth on the driving gear. This is a:

A. Overdrive gear ratio
B. Reduction gear ratio
C. Direct drive gear ratio
D. Reverse gear ratio

**Answer: B**

Explanation:
A gear ratio is determined by dividing the number of teeth on the driven gear by the number of teeth on the driving gear. In this case, the gear ratio is 3:1. This is indicative of gear reduction, in which the driven gear speed is lower than the drive gear speed.
Output speed is divided by the gear ratio, and output torque is multiplied by the same ratio. In our case, output speed would be 33.3% of the input speed, while output torque would be 300% of the input torque.

## Question: 3

Two technicians are inspecting clutch components during an automatic transmission rebuild. Technician A says all of the clutch steel discs should be replaced if any of them show heat discoloration. Technician B says if a friction disc shows signs of glazing, the entire set should be replaced.
Who is correct?

A. Both A and B
B. Neither A nor B
C. Technician A
D. Technician B

**Answer: A**

Explanation:
Both technicians are correct. If any of the clutch pack steel or friction discs show signs of excessive wear, such as heat discoloration or glazing, the entire set should be replaced.

## Question: 4

Which of the following is true regarding pilot bearings?

A. The pilot bearing is pressed into the back of the camshaft flange
B. Pilot bearings are thrust bearings
C. The pilot bearing rotates when the engine is running
D. All pilot bearings must be packed prior to installation

**Answer: C**

Explanation:
The pilot bearing supports the input shaft in the end of the crankshaft or the center of the flywheel. When the engine is running, the pilot bearing rotates.
The other options are not true: some pilot bearings must be packed prior to installation, but others are sealed from the factory; pilot bearings are ball or caged bearings or solid bushings, not thrust bearings; and pilot bearings are pressed into the end of the crankshaft, not the camshaft.

## Question: 5

There is white smoke coming from the tailpipe of a vehicle. Technician A says a faulty vacuum modulator may be to blame. Technician B says a faulty governor may be the problem.
Who is correct?

A. Both A and B
B. Neither A nor B
C. Technician A
D. Technician B

**Answer: C**

Explanation:
Only technician A is correct. Because the vacuum modulator uses engine intake vacuum to modulate line pressure and shift points, an internal leak may allow ATF to be drawn into the intake manifold. On combustion, ATF produces white smoke in the exhaust. The governor is not connected to the engine, so a faulty governor would not show up in engine exhaust.

## Question: 6

Flex-fuel vehicles typically include modifications to all of the following components except:

A. Fuel tank
B. Fuel rail
C. Fuel injectors
D. Fuel pump

**Answer: A**

Explanation:
Flex-fuel vehicles have a modified fuel system to accommodate the use of E85 fuel. Modified components typically include the fuel rail, fuel pump, fuel injectors, and fuel injector o-rings. The fuel tank is usually the same as those used in gasoline-powered vehicles.

## Question: 7

A 12-volt battery is connected to a 3-ohm resistor. How many amps will flow through the circuit?

A. 2
B. 3
C. 4
D. 6

**Answer: C**

Explanation:
Ohm's Law says I = E / R where I is current, E is voltage, and R is resistance. So, to solve the problem: I = 12 / 3, which gives the result I = 4.

## Question: 8

Technician A says exhaust back pressure can be tested with a vacuum-pressure gauge. Technician B says at idle, back pressure should be less than 1.5 PSI.
Who is correct?

A. Both A and B
B. Neither A nor B
C. Technician A
D. Technician B

**Answer: A**

Explanation:
Both technicians are correct. Exhaust back pressure can be tested with either a vacuum-pressure gauge or a pressure gauge. Back pressure should be less than 1.5 PSI at idle and 2.5 PSI at 2,500 rpm.

## Question: 9

Technician A says when the clutch pedal is up, the clutch is disengaged. Technician B says when the driver depresses the clutch pedal, the throwout bearing is forced against the pressure plate.
Who is correct?

A. Both A and B
B. Neither A nor B
C. Technician A
D. Technician B

**Answer: D**

Explanation:
When the driver depresses the clutch pedal, the throwout bearing is pressed against the pressure plate. This releases pressure from the clutch disc and allows the engine to operate without transferring torque to the transmission.
Technician A is incorrect. When the clutch pedal is down, the clutch is disengaged, and when the clutch pedal is up, the clutch is engaged.

## Question: 10

The purpose of a transistor is to do all of the following except:

A. Store an electrical charge
B. Regulate current
C. Act as an electrical switch
D. Act as an amplifier

**Answer: A**

Explanation:
A transistor is a semiconductor designed to act as an electrical switch, an amplifier, and a current regulator. A transistor will allow current to flow if the electrical conditions allow it to switch on, similar

to an electro-mechanical relay. Current can be controlled or a signal can be amplified if it is strong enough to trigger the base of the transistor.
A capacitor can store an electrical charge

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