

AST MLR MAST Student Test

A1 Engine Repair (ER) 11 Questions

1. If the bore of an engine is increased without any other changes except for the change to proper-size replacement pistons, the displacement will _____ and the compression rate will _____.
 - A. Increase; increase
 - B. Increase; decrease
 - C. Decrease; increase
 - D. Decrease; decrease
2. Piston damage as shown is most likely to be caused by _____.
 - A. Valves hitting the piston head
 - B. Abnormal combustion
 - C. Lugging the engine during operation
 - D. High engine speeds that can break piston heads
3. Two technicians discuss the “hot” light on the dash. Technician A says that the light comes on if the cooling system temperature is too high for safe operation of the engine. Technician B says that the light comes on whenever there is a decrease (drop) in cooling system pressure. Which technician is correct?
 - A. Technician A only
 - B. Technician B only
 - C. Both Technicians A and B
 - D. Neither Technician A nor B
4. Which antifreeze coolant should be used if the manufacturer specifies coolant that is both silicate and phosphate free?
 - A. Organic acid technology (OAT), e.g. DEX-COOL (orange)
 - B. Ethylene glycol (green)
 - C. Asian red
 - D. European pink
5. A cylinder head is being installed. Technician A says to use a form-in-place sealant between the block and the head. Technician B says that the “front” on a head gasket indicates that it should be installed toward the auxiliary drive belt end of the engine. Which technician is correct?
 - A. Technician A only
 - B. Technician B only
 - C. Both Technicians A and B
 - D. Neither Technician A nor B

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6. Two technicians are discussing timing the camshaft to the crankshaft. Technician A says that marks are often provided on the cam and crank gears or pulley so that the engine can be properly timed. Technician B says that some engines use a camshaft sprocket or gear that is not keyed to the camshaft.

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. On a metric bolt sized M8 * 1.5, the 1.5 means that _____.

- A. The bolt is 1.5 millimeters in diameter
- B. The bolt is 1.5 centimeters long
- C. The bolt has 1.5 millimeters between the crest of the threads
- D. The bolt has a strength grade of 1.5

8. Two technicians are discussing engine and transmission/transaxle mounts. Technician A says that a defective (collapsed) mount can cause an engine or driveline vibration. Technician B says that some mounts are fluid filled and should be checked for leakage. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

9. Typical valve-to-valve guide clearance should be _____.

- A. 0.001 to 0.003 inch (0.025 to 0.076 mm)
- B. 0.010 to 0.030 inch (0.25 to 0.76 mm)
- C. 0.035 to 0.060 inch (0.89 to 1.52 mm)
- D. 0.100 to 0.350 inch (2.54 to 8.90 mm)

10. Technician A says that a defective PCV valve could cause a rough idle. Technician B says that an EGR valve stuck open could cause a rough idle. Which technician is correct?

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

11. A spark plug has dry, black fluffy deposits. Technician A says this is caused by the engine burning oil. Technician B says that the engine may be operating with a rich air-fuel mixture. Which technician is correct?

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

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A2 Automatic Transmission Transaxle (AT) (8)

1. A hydraulically controlled automatic transmission is not shifting correctly. Which service operation should the technician perform first?
 - A. Perform a pressure test
 - B. Adjust the bands
 - C. Check the transmission fluid
 - D. Check for proper engine vacuum
2. A stall test is being performed with the results shown. The specification for this vehicle is 1850 to 1950 RPM. What is the most likely cause?
 - A. A weak or excessively worn engine
 - B. A slipping forward clutch
 - C. A defective torque converter clutch
 - D. A defective or out-of-adjustment manual valve
3. An automatic overdrive transmission does not shift into overdrive. It functions normally in all other gear ranges. Technician A says that the gear selector display (PRNDL) or manual linkage may not be properly adjusted. Technician B says the governor may be defective. Which technician is correct?
 - A. Technician A only
 - B. Technician B only
 - C. Both Technicians A and B
 - D. Neither Technician A nor B
4. Pressure gauges are attached to the transmission and the vehicle is being test driven. The pressures are all within specifications until the vehicle is accelerated rapidly and the mainline pressure decreases. Which is the most likely cause?
 - A. slipping forward clutch
 - B. A defective (slipping) torque converter clutch
 - C. A stuck shift valve
 - D. A clogged filter
5. A pressure test is being performed with the engine running and the gear selector in park except where stated. All of the following test results are within standard parameters except
 - A. Mainline pressure is 50 PSI
 - B. Governor pressure is 50 PSI
 - C. Cooler line pressure is 50 PSI
 - D. Low/reverse is 150 PSI (in reverse)

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6. Technician A says that all friction and steel plates in a clutch pack should be replaced during an overhaul. Technician B says that the automatic transmission fluid cooler should always be flushed when a unit is rebuilt or replaced. 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. ATF is observed leaking out of the bell housing area of an automatic transmission. Technician A says that the fluid may have been overfilled and it is leaking out of the vent pipe. Technician B says that the front seal may require replacement. Which technician is correct?"

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

8. Two technicians are discussing the diagnosis of an automatic transmission that is not shifting correctly. Technician A says that the mainline pressure should be checked. Technician B says that the cooler pressure should be checked if a pressure tap is available. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

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A3 Manual Drive Train and Axles

1. Various lubricants are used in a manual transmission except _____.
 - A. Automatic transmission fluid (ATF)
 - B. High temperature chassis grease
 - C. SAE 80W-90 gear lube
 - D. Engine oil
2. Transfer cases use what lubricant?
 - A. Automatic transmission fluid (ATF)
 - B. Special fluid
 - C. SAE 80W-90 gear lube
 - D. Any of the above depending on application
3. A paper blocker ring is used in a manual transaxle. What type of lubricant will harm this type of blocker ring?
 - A. SAE 80W-90 gear lube
 - B. ATF
 - C. Engine oil
 - D. Manual transmission fluid
4. A clutch engages close to the floor and will often not disengage. What is the most likely cause?
 - A. Worn clutch disc
 - B. Misadjusted clutch linkage
 - C. Weak pressure plate
 - D. Worn flywheel
5. A differential pinion seal is leaking. What should be used to remove the pinion nut?
 - A. Air impact wrench
 - B. Torque wrench
 - C. Socket and wrench while companion flange is being held with a holding tool
 - D. Gear puller

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6. A four-wheel-drive vehicle is noisy in four-wheel low, but not in four-wheel high or two-wheel drive. Which is the most likely cause?

- A. Excessive axial play in the planetary gears
- B. A loose drive chain
- C. A defective input bearing
- D. A defective rear output bearing

7. A service technician removed the inspection/fill plug from the differential of a rear-wheel-drive vehicle and gear lube started to flow out. Technician A says that the technician should quickly replace the plug to prevent any more loss of gear lube. Technician B says the fluid should be allowed to drain. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

8. A customer complained of hard shifting particularly into first gear and reverse. Technician A says that the blocking ring may be worn. Technician B says that the clutch may be defective or out of adjustment. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

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A4 Suspension and Steering

1. A customer complains that the steering lacks power assist all the time. Technician A says that the power steering pump drive belt could be slipping or loose. Technician B says that worn outer tie rod ends could be the cause. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

2. When replacing a rubber-bonded socket (RBS) tie rod end, the technician should be sure to _____.

- A. Remove the original using a special tool
- B. Install and tighten the replacement with the front wheels in the straight-ahead position
- C. Grease the joint before installing on the vehicle
- D. Grease the joint before installing on the vehicle

3. Whenever installing a tire on a rim, do not exceed _____.

- A. 25 PSI
- B. 30 PSI
- C. 35 PSI
- D. 40 PSI

4. If the turning radius (TOOT) is out of specification, what should be replaced?

- A. The outer tie rod ends
- B. The inner tie rod ends
- C. The idler arm
- D. The steering knuckle

5. With the present alignment, the vehicle will _____.

- A. Pull toward the right
- B. Go straight
- C. Pull toward the left

6. When should the strut rod (retainer) nut be removed?

- A. After compressing the coil spring
- B. Before removing the MacPherson strut from the vehicle
- C. After removing the cartridge gland nut
- D. Before removing the brake hose from the strut housing clip

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7. A vehicle equipped with power rack-and-pinion steering is hard to steer when cold only. After a couple of miles of driving, the steering power assist returns to normal. The most likely cause of this temporary loss of power assist when cold is.

- A. A worn power steering pump
- B. Worn grooves in the spool valve area of the rack-and-pinion steering unit
- C. A loose or defective power steering pump drive belt
- D. A defective power steering computer sensor

8. The ball joint used on a MacPherson strut suspension is usually load carrying.

- A. True
- B. False

9. A pull toward one side during braking is one symptom of a defective or worn _____ .

- A. Stabilizer bar links
- B. Strut rod bushings
- C. Rear leaf springs
- D. Track (panhard) rod

10. The maximum allowable axial play in a ball joint is usually _____ .

- A. 0.001 inch (0.025 mm)
- B. 0.003 inch (0.076 mm)
- C. 0.030 inch (0.76 mm)
- D. 0.050 inch (1.27 mm)

11. Oil is added to the MacPherson strut housing before installing a replacement cartridge to _____ .

- A. Lubricate the cartridge
- B. Transfer heat from the cartridge to the outside strut housing
- C. Act as a shock dampener
- D. Prevent unwanted vibrations

12. Technician A says that radial tires should only be rotate front to rear, never side to side. Technician B says that vehicle manufacturers usually recommend that radial tires should be rotated using the modified X method. Which technician is correct?"

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

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13. A driver complains that the vehicle darts or moves first toward one side and then to the other side of the road. Technician A says that bump steer caused by an unlevel steering linkage could be the cause. Technician B says that a worn housing in the spool valve area of the power rack and pinion is the most likely cause. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

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A5 Brakes

1. The edge code lettering on the side of friction material tells the technician _____.
 - A. The coefficient of friction code
 - B. b. The quality of the friction material
 - C. c. The temperature resistance rating
 - D. d. All of the above

2. The type of test performed to determine if the ESC system is functioning is called _____.
 - A. Skid pad test
 - B. Sine with dwell test
 - C. 360-degree circle test
 - D. Avoidance test

3. Most vehicle manufacturers recommend using _____ brake fluid.
 - A. DOT 2
 - B. DOT 3
 - C. DOT 4
 - D. DOT 5

4. The proper brake bleeding sequence for a front/rear split hydraulic system is _____.
 - A. Right front, right rear, left front, left rear
 - B. b. Right rear, left front, right front, left rear
 - C. c. Left front, left rear, right front, right rear
 - D. d. Right rear, left rear, right front, left front

5. Disc brake rotors should be machined if rusted.
 - A. True
 - B. False

6. A vehicle equipped with ABS is being checked as part of a visual inspection. How many places could there be to check brake fluid level and condition?
 - A. 1
 - B. 2
 - C. 3
 - D. Any of the above depending on the system

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7. Two technicians are discussing loosening a stuck bleeder valve. Technician A says to use a 6-point wrench and simply pull on the wrench until it loosens. Technician B says that a shock is usually necessary to loosen a stuck bleeder valve. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

8. After a disc brake pad replacement, the brake pedal went to the floor the first time the brake pedal was depressed. The most likely cause was _____.

- A. Air in the lines
- B. Improper disc brake pad installation
- C. Lack of proper lubrication of the caliper slides
- D. Normal operation

9. Self-apply of the brakes can occur if _____.

- A. The master cylinder is overfilled
- B. The vent port is clogged or covered
- C. The replenishing port is clogged or covered
- D. Both a and b

10. The rubber used in most brake system components will swell if exposed to _____.

- A. Engine oil or ATF
- B. Moisture in the air
- C. DOT 5 brake fluid
- D. Water

11. Technician A says that the backing plate should be lubricated with chassis grease on the shoe pads. Technician B says that the brakes will squeak when applied if the shoe pads are not lubricated. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

12. New brake shoes are being installed and they do not touch the anchor pin at the top. Technician A says the brake shoes are not the correct size. Technician B says the parking brake cable may need to be loosened. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

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13. One-disc brake pad is worn more than the other. Technician A says that the caliper piston may be stuck in the caliper bore. Technician B says that the caliper slides may need to be cleaned and lubricated. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

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A6 Electrical/Electronics

1. Copper wiring resistance _____ as the temperature increases.
 - A. Increases
 - B. Decreases
2. A voltage spike is created whenever any component containing a coil is shut off.
 - A. True
 - B. False
3. A meter reads OL. This means that the component or circuit being measured _____ .
 - A. Is open
 - B. Is shorted
 - C. Is grounded
 - D. Has low resistance
4. The starter motor armature has been rubbing on the pole shoes. The probable cause is _____ .
 - A. A bent starter shaft
 - B. A worn commutator on the armature
 - C. Worn starter bushing(s)
 - D. Both a and c
5. Airbag wiring connectors are _____ .
 - A. Red
 - B. Orange
 - C. Yellow
 - D. Blue
6. Normal battery drain (parasitic drain) on a vehicle with many computer and electronic circuits is.
 - A. 20 to 30 milliamperes
 - B. 2 to 3 amperes
 - C. 150 to 300 milliamperes
 - D. 0.3 to 0.4 ampere
7. An ohmmeter on the 30-K scale reads 1.93 on a digital face. How many ohms of resistance is being measured?
 - A. 193
 - B. 19,300
 - C. 1930
 - D. 19.30

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8. A charge light is on, but dim. The most likely cause is _____.
- A. A defective rectifier bridge
 - B. A defective diode trio
 - C. A defective rotor
 - D. Worn brushes
9. The charge light does not come on when the key is turned to the "run" position. This could be caused by.
- A. An open circuit to the sending unit
 - B. A burned-out bulb
 - C. A bad diode
 - D. A short inside the generator (alternator)
10. When do you remove a battery surface charge?
- A. Before load testing
 - B. After load testing
 - C. Anytime you are testing the battery, starter, or generator (alternator)
 - D. Before starting the engine to avoid damage to the generator (alternator)
11. A customer arrives at a shop and his battery voltage is measured to be 13.6 volts with the engine off. This indicates _____.
- A. Overcharging
 - B. Undercharging
 - C. Normal surface charge
 - D. Sulfated battery
- "12. A vehicle being checked for parasitic draw shows a reading of 300 mA. The specification for the vehicle is 0.02 A. Technician A says this reading is satisfactory. Technician B says this reading needs to be taken with the key on. Which technician is correct?"
- A. Technician A only
 - B. Technician B only
 - C. Both Technicians A and B
 - D. Neither Technician A nor B
13. A vehicle comes in with a nonfunctioning gas gauge. When the sending unit wire is grounded, the gauge reading goes to "full." Technician A says this proves that the gauge is OK. Technician B says this proves that the sending unit is bad. Which technician is correct?
- A. Technician A only
 - B. Technician B only
 - C. Both Technicians A and B
 - D. Neither Technician A nor B

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14. Technician A says that many wiper motors use a threebrush, two-speed motor. Technician B says that if the low speed does not work, then the wiper will also not operate on pulse (delay). Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

15. A starter cranks for a while, then whines. Technician A says that the starter solenoid may be bad. Technician B says that the starter drive may be bad. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

16. The left-turn signal indicator on the instrument panel stays on and does not flash. The right-side signal functions properly. What is the most likely cause?

- A. A defective flasher
- B. A bad bulb
- C. A defective turn signal switch
- D. A low battery voltage

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A7 Heating and Air Conditioning

1. Which component is located in the low-pressure side of the refrigeration system?
 - A. Accumulator
 - B. TXV
 - C. Orifice tube
 - D. Receiver-drier
2. What is used to control the A/C compressor clutch operation?
 - A. High and low side pressure switches
 - B. Orifice tube
 - C. TXV
 - D. Receiver-drier
3. The technician can test for trapped air (noncondensable gases) inside the refrigerant container by _____.
 - A. Checking the outside of the container for frost
 - B. Checking the pressure versus temperature of the container
 - C. Weighing the container
 - D. Sending the container to a special laboratory for analysis
4. To be sure that all of the moisture in an air-conditioning system has been boiled and removed, a vacuum of at least _____ in. Hg should be drawn on the system for at least _____ minutes."
 - A. 28, 45
 - B. 29, 60
 - C. 30, 90
 - D. 30, 120
5. What two items must be installed or replaced when retrofitting a CFC-12 system to an HFC-134a system?
 - A. Fitting adaptors and a label
 - B. Compressor and O-rings
 - C. Label and the condenser
 - D. Fitting adaptors and the evaporator
6. A lack of heat from the heater is being diagnosed. Which is the most likely cause?
 - A. A partially clogged radiator
 - B. Hoses reversed on the heater core
 - C. A partially clogged heater core
 - D. A defective water pump

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7. A service technician is replacing a water (coolant) pump. Technician A says that used coolant should be properly disposed of or kept for recycling. Technician B says that the used coolant should be reused to refill the cooling system after the repair is completed. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

8. A customer states that the carpet on the floor on the passenger side is wet and noticed this when the air conditioning was first being used in the spring during damp weather. Which is the most likely cause?

- A. Evaporator refrigerant leak
- B. Clogged evaporator case drain
- C. Saturated desiccant in the drier
- D. Clogged screen in the accumulator

9. Technician A says that an electrical open in the low-pressure switch can prevent the compressor from working. Technician B says that the compressor may not operate at low outside temperatures depending on the pressure sensed by the low-pressure switch. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

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A8 Engine Performance

1. An injector pulse can be tested for by using a _____ .
 - A. Spark tester
 - B. Vacuum hose and a test light
 - C. NOID light
 - D. DVOM on "pulse ck"
2. The oil pressure warning light comes on when the oil pressure reaches about _____ .
 - A. 1 PSI
 - B. 4 PSI
 - C. 8 PSI
 - D. 12 PSI
3. The catalytic converter can be tested using _____ .
 - A. A vacuum gauge connected to the intake manifold vacuum
 - B. A temperature measuring tool
 - C. A pressure gauge attached in the place of the O2S
 - D. All of the above
4. A fully charged 12-volt battery should measure _____ .
 - A. 12.6 volts
 - B. 12.4 volts
 - C. 12.2 volts
 - D. 12.0 volts
5. Technician A says to check for spark by connecting a spark tester to the end of a spark plug wire. Technician B says that a regular spark plug should be connected to the end of a spark plug wire to check for spark. 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 OBD-II generic codes are the same for all OBD-II vehicles. Technician B says that the DLC is located under the hood on all OBD-II vehicles. Which technician is correct?
 - A. Technician A only
 - B. Technician B only
 - C. Both Technicians A and B
 - D. Neither Technician A nor B

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7. A short-term fuel trim of 0% and a long-term fuel trim of +20% means.
- A. The engine is running lean now
 - B. The engine has a history of running rich
 - C. The engine has a history of running lean
 - D. The engine is running rich now
8. Two technicians are discussing a cylinder power balance test. Technician A says the more the engine RPM drops, the weaker the cylinder. Technician B says that all cylinder RPM drops should be within 50 RPM of each other. Which technician is correct?
- A. Technician A only
 - B. Technician B only
 - C. Both Technicians A and B
 - D. Neither Technician A nor B
9. Technician A says that OBD-II generic codes are the same for all OBD-II vehicles. Technician B says that the DLC is located under the hood on all OBD-II vehicles. 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. A blown head gasket is suspected on a 5-year-old vehicle. The service technician should perform which of the following tests to confirm the problem?
- A. Running compression test, vacuum test
 - B. Leakdown test, compression test
 - C. PCV test, oil pressure test
 - D. Dipstick test, timing chain slack test
11. A fuel-injected vehicle is tested on a four-gas exhaust analyzer. HC = 102 PPM CO = 0.3% O₂ = 6.3% CO₂ = 6.1% Technician A says that everything is okay including the TP setting because the O₂ and CO₂ are about equal. Technician B says that the engine is running lean. Which technician is correct?
- A. Technician A only
 - B. Technician B only
 - C. Both Technicians A and B
 - D. Neither Technician A nor B
12. Technician A says that black exhaust smoke is an indication of too rich an air–fuel mixture. Technician B says that white smoke (steam) is an indication of coolant being burned in the engine. Which technician is correct?
- A. Technician A only
 - B. Technician B only
 - C. Both Technicians A and B
 - D. Neither Technician A nor B

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13. A compression test gave the following results:

Cylinder 1: 155

Cylinder 2: 140

Cylinder 3: 110

Cylinder 4: 105

Technician A says that a defective (burned) valve is the most likely cause. Technician B says that a leaking intake manifold gasket could be the cause. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

14. An engine misfire is being diagnosed. One spark plug wire measured "OL" on a digital ohmmeter set to the K ohm scale. Technician A says that the spark plug should be replaced. Technician B says that the ignition coil may also need to be replaced because it may be tracked due to the high voltage created by the defective spark plug wire. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

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Supplemental Task

1. Hearing protection should be worn anytime the noise level exceeds _____.
 - A. 60 dB
 - B. 70 dB
 - C. 80 dB
 - D. 90 dB
2. All safety glasses should meet the standards set by _____.
 - A. ANSI
 - B. SAE
 - C. ASE DOT
 - D. DOT
3. To determine if a product or substance being used is hazardous, consult _____.
 - A. Dictionary
 - B. SDS
 - C. SAE standards
 - D. EPA guidelines
4. Proper care of shop equipment includes _____.
 - A. Tuning up every six months
 - B. Keeping equipment clean
 - C. Keeping equipment lubricated
 - D. Both b and c
5. When using a fire extinguisher, what word can be used to remember what to do?
 - A. PASS
 - B. FIRE
 - C. RED
 - D. LEVER
6. Which of these should be used when preparing a vehicle for service?
 - A. A windshield cover
 - B. A steering wheel cover
 - C. Eye protection
 - D. Elbow protection pads

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7. Two technicians are discussing the need for the history of the vehicle. Technician A says that an accident could cause faults to occur after the repair due to hidden damage. Technician B says that some faults could be related to a previous repair. Which technician is correct?

- A. Technician A only
- B. Technician B only
- C. Both Technicians A and B
- D. Neither Technician A nor B

8. Which metric unit of measure is used for volume measurement?

- A. Meter
- B. cc
- C. Centimeter
- D. Millimeter