

Sample G1 ASE-type Certification Test

Sample ASE Maintenance and Light Repair (G1)-Type Certification Test

Content Area	Questions In Test	Percentage Of Test
A. Engine Systems	9	16%
B. Automatic Transmissions	4	7%
C. Manual Drive Train	6	11%
D. Suspension and Steering	13	24%
E. Brakes	11	20%
F. Electrical	8	15%
G. Heating and Air Conditioning	4	7%
TOTAL	55	100%

A-Engine Systems (9 questions)

- Coolant should be tested for ____
 - Proper color
 - Freezing point (temperature)
 - Specific gravity
 - Both b and c
- Two technicians are discussing a compression test. Technician A says that the engine should be cranked over with the pressure gauge installed for "4 puffs." Technician B says that the maximum difference between the highest-reading cylinder and the lowest-reading cylinder should be 20%. Which technician is correct?
 - Technician A only
 - Technician B only
 - Both Technicians A and B
 - Neither Technician A nor B
- Technician A says that oil should be squirted into all of the cylinders before taking a compression test. Technician B says that if the compression greatly increases when some oil is squirted into the cylinders, it indicates defective or worn piston rings. Which technician is correct?
 - Technician A only
 - Technician B only
 - Both Technicians A and B
 - Neither Technician A nor B
- During a cylinder leakage (leak-down) test, air is noticed coming out of the oil fill opening. Technician A says that the oil filter may be clogged. Technician B says that the piston rings

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may be worn or 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
5. Leaking antifreeze can be what color?
- a. Green
 - b. Orange
 - c. Red
 - d. Any of the above
6. What precautions are needed to be performed to help prevent air from getting trapped in the cooling system when replacing coolant?
- a. Use the proper antifreeze as specified
 - b. Open bleeder valve(s) during filling
 - c. Use premixed coolant
 - d. Wear protective gloves
7. When replacing a water pump, be sure to _____.
- a. Torque all fasteners to factory specifications
 - b. Use a new gasket/ seal
 - c. Check that the accessory drive belt is properly aligned and adjusted to the proper tension
 - d. All of the above
8. When using a scan tool to retrieve diagnostic trouble codes (DTCs), the technician should also _____.
- a. Check monitor status
 - b. Check freeze frame data
 - c. Record any stored DTCs
 - d. All of the above
9. When replacing an external fuel filter, best practices include _____.
- a. Use the same brand as the original as the replacement filter
 - b. Reuse the filter after cleaning
 - c. Relieve fuel system pressure before removing the fuel line connections
 - d. Tighten fasteners as tight as possible

B-Automatic Transmissions/Transaxles (4 Questions)

1. Before road testing a vehicle to determine if the automatic transmission is performing normally, which should be performed?
 - a. Check for any stored diagnostic trouble codes
 - b. Check the fluid level
 - c. Check the fluid condition and color

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- d. All of the above
2. Automatic transmission cooling lines are located _____.
 - a. Between the transmission and the radiator
 - b. Between the transmission and the rear axle
 - c. Inside the transmission or transaxle
 - d. Inside the HVAC module
3. Why is a scan tool needed when checking the level of automatic transmission fluid?
 - a. To determine the fluid temperature
 - b. To check for any stored diagnostic trouble codes
 - c. To check which solenoids inside the transmission/transaxle are active.
 - d. To determine the fluid capacity
4. Before replacing the filter in an automatic transmission/transaxle, why should service information be checked first?
 - a. The filter may not be replaceable unless the unit is disassembled
 - b. The filter may be a spin-on type filter
 - c. The pan may be required to be removed
 - d. Any of the above

C- Manual Drive Train and Axles (6 Questions)

1. To flush a hydraulic clutch system, what should be used?
 - a. DOT 3 brake fluid or clutch fluid
 - b. DOT 5 brake fluid
 - c. Solvent
 - d. Brake clean
2. Service information should be checked before replacing/adding manual transmission/transaxle fluid because it can be _____.
 - a. Automatic transmission fluid (ATF)
 - b. Engine oil
 - c. Gear lube
 - d. Any of the above
3. CV Joint boots should be carefully inspected during routine service because they are made from ____ and can be torn or ripped allowing the grease to escape.
 - a. Steel
 - b. Rubber or flexible plastic
 - c. Aluminum
 - d. Vinyl
4. Drive axle (differential case) fluid is usually_____.

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- a. Engine oil (usually SAE 5W-30 or SAE 10W-30)
 - b. ATF
 - c. Gear lube (usually SAE 80W-90)
 - d. Any of the above
5. Transfer case fluid is _____.
- a. Engine oil (usually SAE 5W-30 or SAE 10W-30)
 - b. ATF
 - c. Gear lube (usually SAE 80W-90)
 - d. Any of the above are possible
6. The tires on an all-wheel- drive vehicle should all be_____.
- a. Same brand and size
 - b. Same inflation pressure
 - c. Within 1/16 inch of the same tread depth
 - d. All of the above

D- Suspension and Steering (13 Questions)

1. Which step is NOT usually done when disarming an airbag system?
 - a. Removing the airbag modules from the vehicle
 - b. Removing the airbag fuse
 - c. Disconnecting the electrical connector to the airbag
 - d. Disconnecting the battery
2. Where can the type of power steering fluid be found?
 - a. On the reservoir fill cap
 - b. In the owner's manual
 - c. In service information
 - d. Any of the above
3. Accessory drive belts are checked for all *except*.
 - a. Cracks
 - b. Wear
 - c. Length
 - d. Alignment
4. Which is the preferred method to bleed air from a power steering system?
 - a. Raise the front wheel off the ground and turn the steering wheel lock to lock
 - b. Start the engine and allow to idle
 - c. Use a vacuum pump attached to the reservoir cap
 - d. Use a bleeding tool
5. When replacing steering or suspension parts, which precaution is needed to be performed?

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- a. Fasteners tighten to factory specifications
 - b. Most parts need to be replaced in pair (left and right side)
 - c. The front wheels should be in the straight ahead position when the final parts are tighten
 - d. All of the above
6. A steering dampener looks like a _____
- a. Bump stop
 - b. Shock absorber
 - c. Pulley
 - d. Straight long steel rod
7. Wear indicator ball joints indicate that they are worn enough to need replacement in what location?
- a. a line near the attaching not
 - b. a raised area around the grease fitting
 - c. A special type of rubber grease seal
 - d. Any of the above depending on manufacture
8. A coil spring is correctly installed in a SLA-type of suspension system if _____
- a. The two holes on the lower control arm are covered by the spring
 - b. The two holes are open in the lower control arm
 - c. One hole is covered and the other hole is open or just partially open
 - d. The spring tip shows at the upper spring mount
9. Which statement is true about springs?
- a. Torsion bars are often adjustable to control ride height
 - b. Leaf springs use a center bolt
 - c. Spring can sag resulting in lower ride height
 - d. All of the above
10. A scan tool is likely to be needed to perform which operation?
- a. Measure rear toe (total)
 - b. Calibrate steering angle sensor
 - c. Center the steering wheel
 - d. All of the above
11. The specified tire inflation pressure is found _____.
- a. On the driver's side door placard
 - b. On the tire sidewall
 - c. Either a or b
 - d. None of the above
12. A TPMS relearn procedure involves performing the procedure starting with which tire?
- a. Right front
 - b. Right rear
 - c. Left front

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- d. Left rear
- 13. When rotating tires/wheels using a modified “X” method on a front-wheel-drive vehicle, where should the right front wheel be placed?
 - a. Right front
 - b. Right rear
 - c. Left front
 - d. Left rear

E- Brakes (11 Questions)

1. Brake lines should be inspected for what faults?
 - a. Leaks
 - b. Kinks
 - c. Rust
 - d. All of the above
2. Which statement(s) is/are true?
 - a. If the red brake warning light is on, this could indicate a fault with the hydraulic system
 - b. If the amber ABS warning light is on this indicates a fault with the ABS system
 - c. If the red brake warning light is on, the vehicle should not be test driven
 - d. Both a and c are correct
3. How many drum brake shoe support pads are located on each backing plate?
 - a. 6
 - b. 4
 - c. 2
 - d. 8 or more depending on make and model of vehicle
4. Typical lug nut torque specifications for a passenger vehicle is usually ____
 - a. 60-70 lb-ft
 - b. 80-100 lb-ft
 - c. 110-150 lb-ft
 - d. 160-180 lb-ft
5. What should be performed before adjusting the parking brake on a vehicle using front disc brakes and rear drum brakes?
 - a. Check that the thickness of the front disc brake pads are with factory specifications
 - b. Check for proper adjustment of the rear drum brake shoes.
 - c. Check the brake fluid level
 - d. All of the above
6. A disc brake caliper does not move and one of the pads is worn more than the other.
 - a. Normal for disc brakes
 - b. The caliper piston is likely to be stuck
 - c. The caliper slides are likely to be stuck

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- d. The caliper dust shield could be leaking and causing this condition
- 7. Thickness variation specification for most disc brake rotors is ____
 - a. 0.0005
 - b. 0.050 inch
 - c. 0.050 inch
 - d. 0.500 inch
- 8. The type of brake fluid recommended for use in the master cylinder is ____.
 - a. DOT 3
 - b. DOT 4
 - c. DOT 4+ or LV
 - d. Any of the above depending on the vehicle
- 9. What type of grease should be used to lubricate the slides on a disc brake caliper?
 - a. Wheel bearing grease
 - b. Chassis grease
 - c. Silicone grease
 - d. Any of the above
- 10. Why does the brake pedal need to be depressed several times after replacing the disc brake pads?
 - a. To seat the pads into the caliper piston assembly
 - b. To force the pistons outward so that the pads contact the rotor
 - c. To bed in the brake pads
 - d. To break in the new pads
- 11. Two technicians are discussing how to check a vacuum brake booster for proper operation. Technician A says that the brake pedal should be depressed and then the engine started. Technician B says that the vacuum booster is working normally if the booster is able to supply 2 or 3 assisted brake applications before becoming a hard to depress brake pedal. Which technician is correct?
 - a. Technician A only
 - b. Technician B only
 - c. Both Technicians A and B
 - d. Neither Technician A nor B

F- Electrical (8 Questions)

- 1. The voltage drop is being tested on a cranking circuit. Technician A says that the voltmeter test leads need to be placed at the battery positive and the other test lead to the starter terminal to measure the voltage drop on the positive part of the circuit. Technician B says that the engine has to be cranked using the starter to measure the voltage drop. Which technician is correct?

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- a. Technician A only
 - b. Technician B only
 - c. Both Technicians A and B
 - d. Neither Technician A nor B
2. A technician wants to check the current flow (amperes) in a circuit. What needs to be done?
 - a. The circuit has to be disconnected and the meter leads connected in series with the circuit being tested
 - b. An inductive meter could be used to measure the current if attached to a wire in the circuit.
 - c. Set the meter to read DCA and then connect the meter leads to the positive and negative terminals of the battery.
 - d. Either a or b
3. When jump starting a vehicle, the last connection from another vehicle or a jump box should, be _____.
 - a. The connection to a good ground on the disabled vehicle away from the battery
 - b. The connection to the negative terminal of the good vehicle
 - c. The connection to the positive terminal of the disabled vehicle
 - d. Any of the above
4. The air bag warning lamp flashes a few times when the vehicle is started and then stops flashing and goes out. This indicates _____.
 - a. A fault has been detected in the air bag system
 - b. Normal self-test of air bag system
 - c. the air bag module requires recalibration
 - d. Any of the above depending on make model and year of vehicle
5. A starter is being replaced. What precautions are needed before performing this procedure?
 - a. Disconnect the negative battery cable.
 - b. Disconnect the positive battery cable
 - c. Remove the starter fuse

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- d. Disarm the driver's side airbag for safety
6. A charging system output test indicates that the alternator is not supplying the specified output. Technician A says that the drive belt could be worn and causing the lower than normal output. Technician B says that the drive belt tensioner could be faulty. Which technician is correct?
- Technician A only
 - Technician B only
 - Both Technicians A and B
 - Neither Technician A nor B
7. When replacing light bulbs, a wise technician should ____.
- use caution working around the high voltage of a HID headlight system
 - not touch the glass part of a halogen bulb
 - use the specified trade number bulb as a replacement
 - all of the above
8. Technician A says that memory functions can be kept when disconnecting a battery by connecting a "memory saver" to the lighter plug on many vehicles. Technician B says that memory functions can be kept when disconnecting a battery by connecting a "memory saver" to the 16 pin diagnostic link connector (DLC) on 1996 and newer vehicles. Which technician is correct?
- Technician A only
 - Technician B only
 - Both Technicians A and B
 - Neither Technician A nor B

G- Heating, Ventilation and Air Conditioning

- When checking for vent temperatures, where should the measurement be made?
 - At the center outlets

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- b. At the outlet on the driver's side
 - c. At the defroster vents
 - d. At the passenger side AC vent
2. Cabin filters _____.
- a. May be accessed from inside the vehicle on the passenger side behind the glove compartment
 - b. Under the hood on the passenger side.
 - c. Should be replaced as part of regular maintenance
 - d. All of the above
3. Where is the evaporator drain usually located?
- a. Behind the glove compartment
 - b. Under the vehicle on the passenger side
 - c. Under the hood near the AC compressor
 - d. Any of the above depending on make, model and year of vehicle
4. The location of a refrigerant leak is often where what is seen?
- a. A clear liquid leaking or dripping
 - b. A green mist is seen
 - c. An oily areas
 - d. Any of the above

A- Engine Systems- Answers

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

B- Automatic Transmissions-Answers

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1. d
2. a
3. a
4. d

C-Manual Drive Train Answers

1. a
2. d
3. b
4. c
5. d
6. d

D-Suspension and Steering-Answers

1. a
2. d
3. c
4. a
5. d
6. b
7. b
8. c
9. d
10. b
11. a
12. c
13. b

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E-Brakes-Answers

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

F- Electrical-Answers

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

G- Heating and Air Conditioning-Answers

1. a
2. d
3. b
4. c