

Name \_\_\_\_\_

**MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.**

- 1) Which of these is a type of electric motor designed to rotate in small steps based on the signal from a vehicle computer? 1) \_\_\_\_\_
  - A) Stepper motor
  - B) Compound motor
  - C) Stepping motor
  - D) Shunt control motor
  
- 2) Which of these electronic display devices uses electrodes and polarized fluid to create numbers and characters? 2) \_\_\_\_\_
  - A) LCD (Liquid Crystal Display)
  - B) LED (Light Emitting Diode)
  - C) VTF (Vacuum Tube Fluorescent)
  - D) CRT (Cathode Ray Tube)
  
- 3) Technician A says that the data displayed on the dash can come from the powertrain control module (PCM). Technician B says that the entire instrument panel assembly may have to be replaced even if just one unit fails. Which technician is correct? 3) \_\_\_\_\_
  - A) Technician A only
  - B) Technician B only
  - C) Both technicians A and B
  - D) Neither technician A nor B
  
- 4) A backup camera system can may be integrated with the vehicle \_\_\_\_\_ system 4) \_\_\_\_\_
  - A) reverse
  - B) screen display
  - C) OnStar
  - D) HUD
  
- 5) A customer complains that every time the lights are turned on in the vehicle, the dash display dims. Which of these is the MOST likely cause which of these conditions? 5) \_\_\_\_\_
  - A) Normal behavior for LED dash displays
  - B) Normal behavior for VTF dash display
  - C) Poor ground in lighting circuit causing a voltage drop to dash lamps
  - D) Feedback problem from a short-to-voltage between headlights and dash display
  
- 6) A backup camera can show a poor-quality image on the interior display if what occurs? 6) \_\_\_\_\_
  - A) Ice or snow on the camera
  - B) Bright lights aimed at the camera
  - C) Extreme temperatures
  - D) Any of the above

- 7) How does changing tire diameter affect the speedometer reading? 7) \_\_\_\_\_
- A) A smaller diameter tire causes the speedometer to read faster than the actual speed and more than the actual mileage on the odometer
  - B) A smaller diameter tire causes the speedometer to read slower than the actual speed and less than the actual mileage on the odometer
  - C) A larger diameter tire causes the speedometer to read faster than actual speed and more than actual mileage on the odometer
  - D) A larger diameter tire causes the speedometer to read slower than the actual speed and more than the actual mileage on the odometer
- 8) The General Motors rear park assist (RPA) system senses \_\_\_\_\_ behind the vehicle. 8) \_\_\_\_\_
- A) excessive heat
  - B) darkness
  - C) slippery areas
  - D) objects
- 9) The light indicating a problem with the ABS system is colored \_\_\_\_\_. 9) \_\_\_\_\_
- A) amber
  - B) red
  - C) green
  - D) None of these
- 10) Which of these is a supplemental display that projects the vehicle speed and sometimes other data, such as turn signal information, onto the windshield? 10) \_\_\_\_\_
- A) Road Monitor
  - B) Instrument Panel Display (IPD)
  - C) Head-up display (HUD)
  - D) Driver Information Center (DIC)

## Answer Key

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- 1) A  
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- 2) A  
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- 3) C  
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- 4) B  
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- 5) B  
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- 6) D  
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- 7) A  
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- 8) D  
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- 9) A  
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- 10) C  
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