

Name: _____

Organization: _____

Date: _____

International Transportation Learning Center Electric School Bus (ESB) Module #1 Operator Familiarization Test

Circle the correct answer for each question or statement.

- 1) Which is **NOT** a benefit of an electric school bus?
 - a. Lower noise levels
 - b. Little to no fluid changes
 - c. Lower floor height for easier boarding
 - d. No vehicle emissions

- 2) Which is **NOT** a benefit of an electric school bus?
 - a. Fewer moving parts for less maintenance costs
 - b. Lower center of gravity for improved handling
 - c. Rooftop batteries allow for solar charging
 - d. Exceptional power for acceleration

- 3) Operators are at risk for electrical shocks on an electric school bus.
 - a. True
 - b. False

- 4) Regenerative braking:
 - a. Extends brake lining life
 - b. Charges the bus batteries when the accelerator pedal is released
 - c. All of the above
 - d. None of the above

- 5) The vehicle-to-grid (V2G) system allows energy from the high-voltage bus battery to be returned to the electrical grid when needed.
 - a. True
 - b. False

- 6) Which instrument cluster gauge is **NOT** found on an electric school bus?
- State-of-charge gauge
 - Power-usage-efficiency gauge
 - Fuel-level gauge
 - Battery-temperature gauge
- 7) The DC/DC Converter is considered the alternator of an electric school bus.
- True
 - False
- 8) Each electric school bus also has 12-volt batteries to power the low voltage system.
- True
 - False
- 9) Bus pre-conditioning:
- Pre-heats or cools the batteries and cabin
 - Should be done while the bus is charging to extend bus range
 - All of the above
 - a. only
- 10) Electric School Buses need pre or post inspections.
- True
 - False
- 11) Electric school buses can use either air or hydraulic brakes.
- True
 - False
- 12) The way an operator drives an electric school bus can help to extend battery life.
- True
 - False
- 13) DC and AC charging use the same plug-in connectors.
- True

b. False

14) DC or Level 3 charging is faster than AC charging:

- a. True
- b. False

15) Drivers can extend the range of an electric school bus by slowing to stops and accelerating slowly from a stop.

- a. True
- b. False

Answer Key

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