

#1

**Charging is defined as which of the following?**

Select one:

- ☐ a. Refilling brake fluid in an EV ✖
- ☐ b. Removing the batteries from an EV and placing them inside charging equipment ✖
- ☐ c. Replacing batteries in an EV ✖
- ☒ d. Supplying power (kW) to an EV battery

Feedback

Your answer is correct.

The correct answer is: Supplying power (kW) to an EV battery

#2

Which of the following acronyms represents the level of charge present in an EV battery?

Select one:

- ☐ a. ANSI ✖
- ☐ b. EVA ✖
- ☐ c. NFPA ✖
- ☒ d. SOC

Feedback

Your answer is correct.

The correct answer is: SOC

#3

The first EV chargers were external and supplied DC current directly to the vehicle's batteries.

Select one:



a. True



b. False ❌

Feedback

Your answer is correct.

The correct answer is: True

#4

Which of the following was an early electric vehicle charger?

Select one:



a. City of Seattle's Electro-Park electrified parking space ❌



b. Ford Dyna-Charge ❌



c. General Electric arc rectifier



d. Tesla Model 001 Charger ❌

Feedback

Your answer is correct.

The correct answer is: General Electric arc rectifier

#5

Later in the development of EV charging equipment, the actual charging means was accomplished by a(n) ? that was on board the vehicle.

Select one:

- ☐ a. internal combustion generator ✖
- ☒ b. inverter ✖
- ☐ c. rectifier
- ☐ d. voltage source ✖

Feedback

Your answer is correct.

The correct answer is: rectifier

#6

Electric vehicle supply equipment (EVSE) provides which of the following safety features?

Select one:

- ☐ a. A continuously energized output ✖
- ☐ b. GFCI protection ✖
- ☐ c. Internal fault detection ✖
- ☒ d. Both b. and c.

Feedback

Your answer is correct.

The correct answer is: Both b. and c.

#7

EVSE provides DC power to the electric vehicle charging port.

Select one:

☐ True ✖

☒ False

Feedback

The correct answer is 'False'.

#8

DC charging equipment provides DC directly to ? in an EV.

Select one:

☒ a. battery management systems

☐ b. battery monitoring devices ✖

☐ c. charge multiplier systems ✖

☐ d. current management systems ✖

Feedback

Your answer is correct.

The correct answer is: battery management systems

#9

The Society of Auto Engineers (SAE) creates standards for which of the following?

Select one:

- ☐ a. Maximum current and voltage specifications for EVSE ✖
- ☐ b. Plug configuration ✖
- ☐ c. Safety features ✖
- ☒ d. All of the above

Feedback

Your answer is correct.

The correct answer is: All of the above

#10

An AC charger with a single-phase 120-volt connection and 14-16 amperes of continuous current output is classified as a   ?   charger.

Select one:

- ☒ a. Level 1
- ☐ b. Level 2 ✖
- ☐ c. low-voltage ✖
- ☐ d. SAE standard ✖

Feedback

Your answer is correct.

The correct answer is: Level 1

#11

An AC charger with a single-phase 208-volt or 240-volt connection and a continuous current output of up to 80 amperes is classified as a ? charger.

Select one:

- ☐ a. Class 2 ✖
- ☐ b. high-voltage ✖
- ☐ c. Level 1 ✖
- ☒ d. Level 2

Feedback

Your answer is correct.

The correct answer is: Level 2

#12

The purpose of the J1772 connector pins is to provide ?.

Select one:

- ☐ a. a charging interface that is safe for consumers to use ✖
- ☐ b. a means to signal the EVSE to stop charging based on the pin contact state ✖
- ☐ c. signals to the EVSE that the connector is properly seated on the vehicle ✖
- ☒ d. all of the above

Feedback

Your answer is correct.

The correct answer is: all of the above

#13

Which of the following is true about the J1772 standard control pilot terminal pin's function?

Select one:

- ☐ a. It changes the state of the EVSE according to the voltage present. ✖
- ☐ b. It defines the state of the EVSE. ✖
- ☐ c. It uses a +12V to -12V AC square wave signal. ✖
- ☒ d. All of the above

Feedback

Your answer is correct.

The correct answer is: All of the above

#14

Which of the following is not a variable that determines the charging time of an EV?

Select one:

- ☒ a. Connector configuration
- ☐ b. Max power capacity of the EVSE's converter ✖
- ☐ c. Size of the electrical feeder/service supplying the EVSE ✖

- ☐ d. All of the above ✖

Feedback

Your answer is correct.

The correct answer is: Connector configuration

#15

The EV's power acceptance rate should not be considered when making EVSE purchasing decisions.

Select one:

- ☐ True ✖

☒ False

Feedback

The correct answer is 'False'.

#16

The state of charge of the EV battery is   ?  .

Select one:

- ☒ a. a determining factor in calculating the time necessary to fully charge an EV
- ☐ b. an indicator of battery age ✖
- ☐ c. dependent on how many miles the vehicle has been driven in its lifetime ✖
- ☐ d. low when an EV is fully charged ✖



Feedback

Your answer is correct.

The correct answer is: a determining factor in calculating the time necessary to fully charge an EV

#17

Which of the following is the Japanese DC quick charging standard?

Select one:

☒ a. CHAdeMO

☐ b. JARI ✖

☐ c. SAE ✖

☐ d. TEPCO ✖

Feedback

Your answer is correct.

The correct answer is: CHAdeMO

#18

The CHAdeMO V1.0 Standard has charging power up to   ?   at   ?  , up to   ?  .

Select one:

☒ a. 62.5 kW / 500 VDC / 125 A

- ☐ b. 350 kW / 480 VDC / 80 A ✖
- ☐ c. 400 kW / 1,000 VDC / 400 A ✖
- ☐ d. 1 MW / 2,200 VDC / 800 A ✖

Feedback

Your answer is correct.

The correct answer is: 62.5 kW / 500 VDC / 125 A

#19

Wireless EV charging utilizes the principles of ?.

Select one:



a. induction

- ☐ b. parallel resonant circuits ✖
- ☐ c. series resonant circuits ✖
- ☐ d. all of the above ✖

Feedback

Your answer is correct.

The correct answer is: induction

#20

Which of the following is connected to the charge controller of a wireless EV charger via hardwiring?

Select one:

- ☐ a. Power capture resonator ✖
- ☐ b. Power control unit ✖
- ☐ c. Power multiplier coil ✖
- ☒ d. Power source coil

Feedback

Your answer is correct.

The correct answer is: Power source coil

#21

What are the advantages of wireless charging?

Select one:

- ☐ a. Compatibility standards are still under development ✖
- ☐ b. It has no exposed electrical contact points ✖
- ☐ c. Wireless charging has better aesthetic quality ✖
- ☒ d. Both b. and c.

Feedback

Your answer is correct.

The correct answer is: Both b. and c.

#22

Wireless charging is more expensive than charging with EVSE or DCQC.

Select one:

- ☒ True

☐ False ❌

Feedback

The correct answer is 'True'.

#23

What is the SAE standard for wireless charging?

Select one:

- ☐ a. CHAdeMO ❌
- ☒ b. J2954 recommended practice
- ☐ c. SAE J1772 ❌
- ☐ d. None of the above ❌

Feedback

Your answer is correct.

The correct answer is: J2954 recommended practice

#24

The SAE standard for wireless charging has specifications that include which of the following?

Select one:

- ☐ a. Magnetic triangulation for vehicle alignment over the power source coil ✖
- ☐ b. Means to allow for payment without physical interaction ✖
- ☐ c. Up to 11 kW charging capacity ✖
- ☒ d. All of the above

Feedback

Your answer is correct.

The correct answer is: All of the above

#25

Which of the following is not true of EV charging networks?

Select one:

- ☐ a. Charging networks offer both paid memberships and free memberships with pay-as-you-go charging. ✖
- ☐ b. There are over a dozen networks across the U.S. and Canada. ✖
- ☐ c. They allow businesses a way to draw consumers to charging equipment and generate revenue via transaction processing. ✖
- ☒ d. None of the above

Feedback

Your answer is correct.

The correct answer is: None of the above

#26

EV networks utilize memberships that are ?.

Select one:

- ☒ a. fee-based or pay-as-you-go
- ☐ b. rare and exclusive ✖
- ☐ c. all of the above ✖
- ☐ d. none of the above ✖

Feedback

Your answer is correct.

The correct answer is: fee-based or pay-as-you-go

#27

EV networks generate revenue with which of the following?

Select one:

- ☐ a. Call-to-pay ✖
- ☐ b. Membership fees ✖
- ☐ c. Station usage fees ✖
- ☒ d. All of the above

Feedback

Your answer is correct.

The correct answer is: All of the above