1. According to safety standards for RV propane systems, which test involves monitoring the pressure gauge over a specific period to detect leaks?

   (A) Timed pressure drop test
   (B) Regulator lockup test
   (C) Bubble leak test
   (D) System operating pressure test

2. If an RV has a hot skin condition when plugged into shore power, the RV Technician can detect it by

   (A) using a volt meter to measure from hot to neutral in one of the RV's receptacles.
   (B) using an ammeter to measure from hot and neutral in one of the RV's receptacles.
   (C) using a voltmeter to measure from an RV bare metal surface to a good earth ground.
   (D) using an ohmmeter to measure from neutral to a good ground.

3. Washer - Top Loader. The machine is not Draining.

   (A) 1. Bad Pump
2. The Drain Hose is Restricted
   (B) 1. The Hose is Restricted
2. Bad Water Valve
   (C) 1. The Hose is Restricted
2. Bad Water Valve
   (D) 1. Bad Drum Bearing
2. Bad Motor

4. If an RV technician conducts a timed pressure drop test and records a drop of 5 inches of water, what might this indicate about the system being tested?

   (A) The system requires immediate replacement.
   (B) There may be a leak or failure in the system being tested.
   (C) The system is functioning perfectly without any issues.
   (D) The pressure is too high for safe operation.

5. What is the forward and backward tilt of the steering axis at the top called?

   (A) It is called the camber.
   (B) It is called the caster
   (C) It is called the steering axis inclination.
   (D) It is called the toe.

6. Explain why a faulty rear ball joint could be considered a safety hazard

   (A) It has no impact on vehicle safety.
   (B) It can improve steering response.
   (C) It can lead to increased tire wear.
   (D) It can cause the vehicle to lose control.

7. Describe the importance of an automatic transfer switch in managing power sources in an RV.

   A. An automatic transfer switch is not necessary for RVs with a single power source.
   B. An automatic transfer switch is primarily used for charging batteries only.
   C. An automatic transfer switch allows multiple power sources to be used simultaneously for efficiency.
   D. An automatic transfer switch is crucial for ensuring that only one power source is used at a time, preventing electrical overload and ensuring safe operation.

8. The microfarad tolerance on a replacement run capacitor

   A. +20%, -0%
   B. +10%, -10%
   C. +10%, -0%
   D. +20%, -20%

9. The pilot light on a water heater will light but will not stay on. What is the most likely cause?

   A. Not enough gas pressure
   B. Thermocouple bad
   C. Bad limit switch
   D. Thermostat bad

10. Explain the purpose of the J-Tube in relation to the physical state of propane within the tank.

    A. The J-Tube mixes liquid and vapor propane for optimal combustion efficiency.
    B. The J-Tube heats the liquid propane to convert it to vapor before it exits the tank.
    C. The J-Tube allows access to the propane vapor, ensuring that only vapor, and not liquid, is drawn from the tank.
    D. The J-Tube filters out impurities from the liquid propane before it vaporizes.

1009. Describe the role of electronic digital thermostats in RV air conditioning systems.

- A) Electronic digital thermostats only display the current temperature without controlling the system.
- B) Electronic digital thermostats function as backup power sources for RV appliances.
- C) Electronic digital thermostats are used exclusively for water heating systems.
- **D) Electronic digital thermostats regulate the temperature by controlling the air conditioning unit based on set parameters.**

1010. If an RV water heater's T&P relief valve is malfunctioning and fails to release pressure, what potential issue could arise?

- A) Increased energy consumption
- B) Failure of the thermostat to regulate temperature
- C) Reduced water heating efficiency
- **D) Risk of explosion due to excessive pressure buildup**

1011. What happens to the lines of force around a wire when it is bent to form a loop?

- A) They only enter at the top of the loop.
- **B) They leave at one side of the loop and enter on the opposite side.**
- C) They remain uniform around the loop.
- D) They leave at both sides of the loop.

1012. When a propane cylinder has been re conditioned after its expiry date, or if air has entered the cylinder it has to be purged to remove what.

- **A) Remove O2 and H2O**
- B) Remove N2 and O2
- C) Remove CO and CO2
- D) Remove CO2 and O2

1013. If a DSI water heater is not heating water effectively, which component's malfunction could be a likely cause, and why?

- **A) The solenoid propane valve, because if it fails, propane may not flow to the burner, preventing combustion.**
- B) The ignition system, because it is responsible for starting the burner and may fail to ignite.
- C) The water pump, because it circulates water and may cause insufficient heating if malfunctioning.
- D) The thermostat, because it regulates the water temperature and may not signal the burner to ignite.

1014. During a routine maintenance check, a technician notices that the propane system pressure is fluctuating. If the technician suspects that temperature changes in the piping are the cause, what steps should they take to verify this hypothesis?

A. Replace the propane tank with a new one to see if the pressure stabilizes.

B. Increase the flow rate of propane to see if it affects the pressure.

C. Inspect the piping for insulation and check for any heat sources nearby.

D. Measure the ambient temperature around the propane tank only.

1015. Explain why 120 Volts is the standard nominal voltage for AC power in most RV applications.

A. 120 Volts is the standard because it is the only voltage that can be safely produced by RV generators.

B. 120 Volts is the standard because it is the lowest voltage that can power an RV air conditioner.

C. 120 Volts is the standard because it is compatible with most common household appliances and electrical devices used in RVs.

D. 120 Volts is the standard because it is required by federal law for all recreational vehicles.

1016. Washer - Front Loader. The Washer never goes into High Speed. Why ?

A. 1. The Hose is Restricted
2. Bad Water Valve

B. 1. Bad Speed Control Board
2. Bad Motor
3. Pump Restriction

C. 1. Restricted Inlet Hose
2. Bad Inlet Water Valve

D. 1. Bad Legs
2. Bad Transmission Bar
3. Floor not leveled

1017. If you were tasked with designing an RV that needs to withstand high wind conditions, which type of rivet would you prioritize for the exterior siding and why?

A. Pop rivets for lightweight applications

B. Blind rivets for easy installation

C. Solid rivets for their strength and durability

D. Split rivets for their flexibility

1018. A vehicle's electrical system is experiencing intermittent failures, and Technician A suggests that replacing the circuit breaker with a higher-rated one will solve the issue. Technician B argues that this could lead to overheating and potential damage to the wiring. Who is correct?

(A) Only Technician B is correct.

(B) Only Technician A is correct.

(C) Both Technician A and Technician B are correct.

(D) Neither

1019. Describe how inadequate air flow can lead to an air conditioner freezing up.

(A) Inadequate air flow leads to an increase in refrigerant pressure, causing the system to malfunction.

(B) Inadequate air flow results in a higher temperature in the condenser, leading to system failure.

(C) Inadequate air flow prevents the evaporator coil from receiving enough warm air, causing the refrigerant to cool excessively and freeze.

(D) Inadequate air flow causes the compressor to overheat and shut down.