

(These items were developed by teachers for the Technical Skills Assessment. Below is a sample item for each program standard.)

Question 1 of 25

A customer complains that the battery goes dead overnight. The battery tests okay after recharging. What should be the next test?

- A)** Ignition switch
- B)** Parasitic draw
- C)** Specific gravity
- D)** Starter draw

Question 2 of 25

When charging a battery, what determines charge rate and time?

- A)** CCA, type of battery, and state of charge
- B)** Fluid level of battery and state of charge
- C)** Specific gravity and number of cells in the battery
- D)** Type of battery and state of charge

Question 3 of 25

What is the purpose of a starter magnetic switch or relay?

- A)** To allow a large current to control a smaller current
- B)** To allow a large voltage to control a lower voltage
- C)** To allow a low voltage to control a larger voltage
- D)** To allow a small current to control a larger current

Question 4 of 25

What color butt connector is used with 18-21-gauge wire?

- A) Blue
- B) Brown
- C) Red
- D) Yellow

Question 5 of 25

A routine check is being performed on a truck's interior lighting system. When the door is opened, the dome light is inoperative. What should the technician do next?

- A) Check the circuit for opens and shorts.
- B) Look for an override switch.
- C) Replace the bulb.
- D) Replace the fuse.

Question 6 of 25

Technician A claims that intermittent electrical failures are always a ground fault. Technician B says that it's only on the power supply side. Who is correct?

- A) Both Technician A and B
- B) Neither Technician A nor B
- C) Technician A
- D) Technician B

Question 7 of 25

What would cause a PCM module communication error?

- A) Bad ground
- B) Disconnected O2 sensor
- C) Misfiring cylinder
- D) Open TPS

Question 8 of 25

What is an often-overlooked procedure when a technician is checking for engine oil leaks?

- A) Checking the crankcase pressure
- B) Checking the crankshaft seal
- C) Checking the oil viscosity
- D) Checking the valve cover gasket

Question 9 of 25

When should the Fuel Water separator be drained?

- A) Annually
- B) Daily
- C) Monthly
- D) Weekly

Question 10 of 25

When checking a diesel engine's compression, what needs to be removed to check compression?

- A) Exhaust manifold
- B) Fuel injectors
- C) Intake manifold
- D) Spark plugs

Question 11 of 25

When pressure testing a cooling system, a technician finds coolant entering the oil pan and mixing with the engine oil. What is MOST LIKELY the cause?

- A) Blown out water pump gasket
- B) Cylinder liner seal gone bad
- C) Oil filter gasket gone bad
- D) Valve cover gasket folded in

Question 12 of 25

Technician A says oil in the cooling system can be caused by a worn head gasket. Technician B says a worn oil cooler O-ring could be the cause. Who is correct?

- A) Both Technician A and B
- B) Neither Technician A nor B
- C) Technician A
- D) Technician B

Question 13 of 25

What is the first step in troubleshooting the dome light?

- A) Check the battery.
- B) Test the dome light override switch.
- C) Replace the fuse.
- D) Replace the light.

Question 14 of 25

The driver of a vehicle is complaining that the horn is not working. Technician A says to disarm the supplemental restraint system (SRS) before servicing the horn button. Technician B says to examine the horn to see if it can be adjusted before replacing it. Who is correct?

- A) Both Technician A and B
- B) Neither Technician A nor B
- C) Technician A
- D) Technician B

Question 15 of 25

On a PMI, the technician notices the driver's door window drops down. What is MOST LIKELY the issue?

- A) Bent guide rails for the glass
- B) Defective window motor
- C) Faulty window switch
- D) Window regulator

Question 16 of 25

What is often the problem when an A/C system has the compressor clicking on and off very quickly?

- A) The blower motor is on high speed.
- B) The compressor pulley bearing is bad.
- C) The system is low on refrigerant.
- D) The system is overcharged.

Question 17 of 25

Technician A says that the batteries on a tractor could be covered by a fixed part of the truck. Technician B says a removable cover could be used. Who is correct?

- A) Both Technician A and B
- B) Neither Technician A nor B
- C) Technician A
- D) Technician B

Question 18 of 25

A growling noise is coming from the alternator. Technician A says the belt is too tight. Technician B says the belt is worn. Who is correct?

- A) Both Technician A and B
- B) Neither Technician A nor B
- C) Technician A
- D) Technician B

Question 19 of 25

Why are LED bulbs used in vehicles?

- A) To increase lighting intensity
- B) To reduce amperage load
- C) To reduce lighting intensity
- D) To reduce voltage load

Question 20 of 25

At what percent grade should a parking brake hold an air-braked vehicle?

- A) 10%
- B) 15%
- C) 20%
- D) 25%

Question 21 of 25

What material is used to make hydraulic brake lines?

- A) Alloy
- B) Brass
- C) Copper
- D) Titanium

Question 22 of 25

What is the FIRST step when replacing a hydraulic clutch master cylinder?

- A) Remove clutch pedal push rod.
- B) Remove hydraulic line.
- C) Remove slave from its mounting.
- D) Unfasten hydraulic hose from master cylinder.

Question 23 of 25

What could be the cause of a feather edge tire wear pattern on front tires?

- A) Improper camber settings
- B) Improper caster settings
- C) Improper ride height
- D) Improper toe setting

Question 24 of 25

Technician A says tires must be checked for proper inflation when cold. Technician B says that if one tire in a dual-tire setup goes flat, the vehicle can still be operated. Which technician is correct?

- A) Both Technician A and B
- B) Neither Technician A nor B
- C) Technician A
- D) Technician B

Question 25 of 25

A tractor with a trailer connected exhibits a loud clunking noise in the rear of the cab, along with excessive movement at the king pin. What is the MOST LIKELY cause?

- A) Cracked frame
- B) Fifth wheel not lubricated
- C) Locking wedge out of adjustment
- D) Loose fifth wheel stops

Diesel Engine Repair Sample Test Answer Key

Question	Answer
1.	B
2.	A
3.	D
4.	C
5.	B
6.	B
7.	A
8.	A
9.	B
10.	B
11.	B
12.	A
13.	B
14.	C
15.	D
16.	C
17.	A
18.	C
19.	B
20.	C
21.	A
22.	A
23.	D
24.	C
25.	D