

Truck and Transport IP Red Seal Practice Exam

1. Which of these sensors directly measures engine load?
 - a. Manifold absolute pressure sensor.
 - b. Coolant sensor (ECT).
 - c. Vehicle speed sensor.
 - d. Throttle position sensor (TP).

2. All of the following can cause the temperature lamp to remain off when the ignition switch is turned to the run position, with the engine not running, except?
 - a. defective lamp.
 - b. open prove-out (test) circuit.
 - c. blown fuse.
 - d. defective sending unit.

3. Terminals designed to be fitted together and used in matching pairs are designated as?
 - a. male and female.
 - b. polarized and non-polarized.
 - c. terminal and connector.
 - d. terminal and lug.

4. An electronic tachometer is a device that?
 - a. receives voltage pulses from an ignition signal.
 - b. measures actual vehicle speed.
 - c. is gear driven by the transmission.
 - d. receives voltage pulses from the injectors.

5. Impact (discrimination) or Safing (arming) sensors can be tested with an ohmmeter when repairing air bag systems?
 - a. never, cannot be used.
 - b. To check the squib only.
 - c. test for proper operation of the sensor for it's reuse.
 - d. test the diagnostic resistor inside only, which is used for the computer self diagnostics.

6. Which of the following devices control computer outputs?
 - a. motors, variable resistors, solenoids.

- b. motors, lamps, relay, and solenoids
- c. relays, lamps, motors, and pulse generators.
- d. sensors, motors, and relays.

7. What do most front driver side Air Bag inflator modules use?

- a. Sodium Azide canisters that burn to deploy the air bag.
- b. Carbyte Sodium canisters that burn to deploy the air bag.
- c. Argon gas canisters to inflate the air bag.
- d. Hydrogen gas canisters to inflate the air bag.

8. If the Air Bag deploys, the Spiral Clock Spring (Spiral Ribbon) in the combination switch should be?

- a. always replaced.
- b. not changed.
- c. should be changed due to the heat generated from the air bag deployment.
- d. part of the air bag computer and is not replaced.

9. The frequency of an AC signal is determined by the?

- a. amplitude of the signal being generated.
- b. peak value of the sine wave.
- c. number of cycles per unit of time.
- d. None of the above

10. How is the warning lamp of a charging-system activated by?

- a. temperature switch.
- b. variable resistance sending unit.
- c. pressure switch.
- d. difference in voltage.

11. How do Field-effect transistors operate?

- a. with a small input voltage but practically no input current.
- b. high input current.
- c. on the same principle as magnetic field devices.
- d. with a small input voltage and current.

12. A basic starter control circuit energizes the magnetic switch through the ignition switch and the?

- a. starter over-running clutch.

- b. regulator.
- c. solenoid.
- d. neutral start switch.

13. A hot-wire mass air sensor measures?

- a. air temperature in a turbocharged system.
- b. molecular mass of air entering the engine.
- c. airflow velocity entering the engine.
- d. barometric absolute pressure.

14. What will a bad coolant temperature sensor do?

- a. always prevent the car from starting.
- b. can cause driveability and gas mileage problems
- c. always set a code.
- d. None of the above

15. What should the oxygen sensor voltage do when a vacuum leak is created?

- a. permanently rise between .500 - .900 volts. The O2 sensor will stop cycling.
- b. remain around .450 volts if the computer is functioning.
- c. momentarily rise between .500 - .900 volts.
- d. momentarily drop between .100 - .400 volts.

16. Thermistors are used in which components?

- a. coolant temperature sensors.
- b. temperature switches.
- c. fuel gauge sending units.
- d. oil pressure sending units.

17. Which of the following do NOT cause noisy starter motor operation?

- a. worn bushings.
- b. misalignment of the starter motor.
- c. damaged or worn flywheel ring gear.
- d. grounded armature.

18. The computer can read but not change the information stored in? a. KRAM.

- b. ROM
- c. RAM
- d. None of the above

19. A sensor that informs a body computer about temperature, such as an ambient air temperature sensor for A/C is a?

- a. thermistor.
- b. thermodiode.
- c. potentiometer.
- d. hall-effect switch.

20. What do Fiber optic device conductors do?

- a. are powered by a 12v battery.
- b. transmit light.
- c. draw a small amount of electric current.
- d. produce light.

21. What should the next test be if the charging system is below the rated output?

- a. insulated-circuit resistance.
- b. ground-circuit resistance.
- c. alternator output (full-field test).
- d. All of the above

22. How should the horn pad be facing when the steering wheel pad is removed during a repair in a safe position?

- a. down
- b. up
- c. on the side
- d. not necessary

23. What does the PCM (Engine Computer) revert to during wide-open-throttle?

- a. open loop, rich mixture.
- b. closed loop, lean mixture.
- c. closed loop, rich mixture.
- d. open loop with a fixed lean mixture.

24. When applying solder to a splice connection, what is the proper procedure you should do?

- a. the solder is applied to the splice after it has been heated for a few seconds.
- b. the solder is applied at the instant that the heat is applied.
- c. the solder is applied directly to the soldering tip.
- d. None of the above

25. The magnetic field in an alternator is created in the?

- a. armature.
- b. Rotor
- c. Stator
- d. Commutator

Answers

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