

Mississippi Department of Education



MS-CPAS2 Secondary Practice Assessment/ Assessment Preparatory Guidelines *11611P2-2014 Automotive Service Technician*

General Instructor Preparatory Guidelines

- **STUDENTS SHOULD ONLY TAKE PRACTICE TESTS ONLINE.**
- The practice tests are delivered the **SAME WAY** as the live tests.
- Use the correct curriculum and MS-CPAS2 assessment blueprint located at: <http://www.rcu.msstate.edu/Curriculum/CurriculumDownload.aspx>
 - Teach the correct number of instructional hours per unit.
 - Cover each competency/objective listed in the curriculum/blueprint.
- Use multiple-choice (selected response) assessments in your classroom. Examples are Unit Tests, Quizzes, and Timed Final Practice Exams.
- Take **Assessment 101** (RCU online course) to learn how to form well-constructed assessments for your classroom.
- Review previous MS-CPAS2 year reports to identify class unit performance. Adjust in-class reviews accordingly.
- Students should take the **DEMO MS-CPAS2** *OR* the **PRACTICE MS-CPAS2** to help students prepare for testing day.
- **Only** use this document as a review of the online practice assessment **AFTER** students take the practice assessment online. It is **NOT** meant for use as a study guide or predict student performance on the live test.

MS-CPAS2 PRACTICE Assessment

- 1. A car is leaning hard to one side. Technician A says that it is most likely a broken shock. Technician B says it is most likely a sagging or broken spring. Who is correct?**
 - a. Technician A
 - b. Technician B
 - c. Both Technician A and B
 - d. Neither Technician A nor B

- 2. All cars run some positive camber because the:**
 - a. tires do not wear out.
 - b. car rides better than with negative.
 - c. steering wheel returns to straight ahead.
 - d. unsprung weight is lessened.

- 3. Why is keeping a vehicle's service history necessary?**
 - a. To sell the car for more money
 - b. For the shop's tax records
 - c. To have information for future maintenance
 - d. Because it is an OSHA and EPA requirement

- 4. The job of a shock absorber is to control:**
 - a. ride height.
 - b. body jounce and rebound.
 - c. body roll and shake.
 - d. toe out on turns.

- 5. The only alignment angle that does not cause tire wear when out of spec is:**
 - a. caster.
 - b. camber.
 - c. toe.
 - d. axial.

- 6. Technician A says that a power steering pump can produce high pressure. Technician B says that a power steering pump is electric. Who is correct?**
- Technician A
 - Technician B
 - Both Technician A and B
 - Neither Technician A nor B
- 7. Technician A says to test shocks by jouncing the front and rear. Technician B says to inspect shocks for leaks. Who is correct?**
- Technician A
 - Technician B
 - Both Technician A and B
 - Neither Technician A nor B
- 8. What connects the steering wheel to the gearbox?**
- Steering column
 - Center link
 - Pitman arm
 - Drag link
- 9. Excessive negative camber will cause a tire to wear on which edge?**
- Inside edge
 - Outside edge
 - Inside and outside edge
 - Center of tire
- 10. Negative camber is defined by the axis tilt toward the:**
- front of vehicle.
 - rear of vehicle.
 - outside of vehicle.
 - inside of vehicle.

11. What should be checked first in a prealignment inspection?

- a. Caster gauge
- b. Wheel bearings
- c. Radial runout
- d. Tire inflation

12. What does the 75 stand for on a tire that has the number P215/75R on its sidewall?

- a. Width across the tread
- b. Size of the rim
- c. Aspect ratio
- d. Load rating of the tire

13. What tire pressure monitoring system reads the actual tire pressure?

- a. Indirect
- b. Ballistic
- c. Constant
- d. Direct

14. The variable resistor on older cars that allows the driver to dim the dash and interior lights is known as a:

- a. potentiometer.
- b. thermoswitch.
- c. rheostat.
- d. ballast.

15. The circuit that can energize the high beam lamps, even if the main headlight switch is off, is the:

- a. dimmer.
- b. flash-to-pass.
- c. auxiliary.
- d. fuse.

16. What is the term that makes side view mirrors need the warning: "Objects in the mirror are closer than they appear?"

- a. Elongated
- b. Contorted
- c. Bilateral
- d. Convex

17. Which type of headlamps are gas-discharged and electronically controlled?

- a. Composite
- b. Halogen
- c. Cylindrical
- d. HID/Xenon

18. A flasher uses a small heating element to warm a:

- a. rheostat.
- b. filament.
- c. bimetal strip.
- d. ballast.

19. All lights and gauges stop working on an instrument cluster. Technician A suggests replacing the cluster. Technician B tests for a blown fuse. Who is correct?

- a. Technician A
- b. Technician B
- c. Both Technician A and B
- d. Neither Technician A nor B

20. The check engine light flashes and goes out while driving at a steady speed. This is an indication of a/an:

- a. hard code.
- b. low input failure.
- c. improper range.
- d. soft code.

21. The first thing to check when the electronic instrument cluster does NOT work is the:

- a. fuse.
- b. alternator.
- c. ignition switch.
- d. battery.

22. What limits the amount of flow within a circuit?

- a. Capacitor
- b. Resistor
- c. Diode
- d. Relay

23. Which of the following is a storage/load device for electrical energy?

- a. Capacitor
- b. Diode
- c. Relay
- d. Circuit breaker

24. Technician A says if the windshield washers work on one side and not on the other side, it could be a clogged nozzle. Technician B says that it could be a clogged hose. Who is correct?

- a. Technician A
- b. Technician B
- c. Both Technician A and B
- d. Neither Technician A nor B

25. This system utilizes a switch that completes the ground in order to energize the circuit.

- a. Steering
- b. Fuel
- c. ABS brakes
- d. Horn

26. What safety precautions should be observed before removing SRS?

- a. Remove the airbag
- b. Disconnect the battery and install memory saver
- c. Remove SRS fuse and wait 15 minutes
- d. Wear a respirator

27. A technician is trying to see the voltage pattern of a spinning motor. The best electrical tool the technician could use would be the:

- a. DVOM.
- b. 12-volt test light.
- c. oscilloscope.
- d. inductive clamp.

28. The fuse for the power-window system is blown. Which of the following is the cause?

- a. A wire shorted to ground.
- b. A window track is binding
- c. An open in the motor circuit
- d. Bad brushes in the motor

29. What tool is used to help diagnose body electronic systems on modern automobiles?

- a. A test light
- b. Jumper wires
- c. A resistor
- d. A scan tool

30. Which component is used to control the blower motor speed?

- a. Fuse
- b. Resistor
- c. Relay
- d. Circuit breaker

31. The parts that fit around the piston and help seal the cylinder are:

- a. piston rings.
- b. O-rings.
- c. oil seals.
- d. piston seals.

32. Typically, the VIN has how many digits?

- a. Five
- b. Ten
- c. Twelve
- d. Seventeen

33. The device that can assist the interpretation of scan tool data by measuring tailpipe emissions is the:

- a. five gas analyser.
- b. exhaust gas recirculator.
- c. digital volt meter.
- d. inductive amp clamp.

34. When a Technician uploads new or corrected computer data to the computer system, what term would best describe this action?

- a. Re-probe
- b. Re-scan
- c. Re-flash
- d. Re-coil

35. While viewing the data stream during diagnostics, there is no change between pre-cat O₂ and post-cat O₂. Technician A says that there is an improper fuel mixture. Technician B says that the MOST likely cause is a defective catalytic converter. Who is correct?

- a. Technician A
- b. Technician B
- c. Both Technician A and B
- d. Neither Technician A nor B

36. A properly burning spark plug should be what color?

- a. Blue
- b. Black
- c. Red
- d. Brown

37. An oil fouled plug will be what color?

- a. Brown
- b. Black
- c. Blue
- d. Red

38. Technician A says that the primary ignition circuit is the ignition switch and any other parts in the system that operate at or near battery voltage. Technician B says that the secondary circuit is the high voltage section. Who is correct?

- a. Technician A only
- b. Technician B only
- c. Both Technician A and B
- d. Neither Technician A nor B

39. The job of the crankshaft sensor is to read:

- a. camshaft rotation.
- b. RPMs.
- c. crankshaft location.
- d. engine load.

40. Which is the best diagnostic tool to use for checking secondary output from the ignition coil?

- a. Spark tester
- b. Ohmmeter
- c. Ammeter
- d. Battery tester

41. At idle a vehicle is emitting black smoke from the tailpipe. What is the most likely cause of this condition?

- a. Worn piston rings
- b. Leaking valve seals
- c. Cracked head gasket
- d. Fuel mixture too rich

42. Technician A says you can use a vacuum gauge for finding exhaust restrictions. Technician B says you can use a voltmeter for finding exhaust restrictions. Who is correct?

- a. Technician A
- b. Technician B
- c. Both Technician A and B
- d. Neither Technician A nor B

43. What is the normal operating voltage range for a throttle position sensor?

- a. 0-5 volts
- b. 2-8 volts
- c. 12-24 volts
- d. 25-50 volts

44. An exhaust manifold, made up of individual pipes that run from each cylinder into a collector, is a/an:

- a. header.
- b. converter.
- c. resonator.
- d. exchanger.

45. Before removing a fuel filter from a fuel injected vehicle, the technician should always:

- a. check the fuel gauge.
- b. replace the gas cap.
- c. relieve the pressure from the lines.
- d. see if the fuel pump relay clicks.

46. If a vehicle's air filter becomes extremely clogged, it will cause the air fuel ratios to become more:

- a. dense.
- b. rich.
- c. lean.
- d. diluted.

47. The EPA states that catalytic converters contain many valuable metals and after removal should be:

- a. burned.
- b. buried.
- c. recycled.
- d. reused.

48. Technician A says hydrocarbons can come from unburned fuel. Technician B says carbon monoxide is colorless, odorless and deadly. Who is correct?

- a. Technician A
- b. Technician B
- c. Both Technician A and B
- d. Neither Technician A nor B

49. Which of the following allows fuel vapor to leave the charcoal canister to be burned by the engine?

- a. Vent valve
- b. Expansion valve
- c. Fuel valve
- d. Purge valve

50. Which organization regulates emissions on the automobile?

- a. Occupational Safety and Health Administration
- b. Environmental Protection Agency
- c. American Petroleum Institute
- d. Department of Transportation

MS-CPAS2
PRACTICE Assessment
Answer Key

Answer Key

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

Question	Answer
26	C
27	C
28	A
29	D
30	B
31	A
32	D
33	A
34	C
35	B
36	D
37	B
38	C
39	C
40	A
41	D
42	A
43	A
44	A
45	C
46	B
47	C
48	C
49	D
50	B