

Chapter 17 - Practice Questions

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

1) How do you know which type of fuel to buy for your vehicle?

- a. Check in the owner's manual.
- b. Look at the serial number located near the windshield.
- c. Buy the fuel with the highest octane.
- d. Buy the fuel with the lowest octane.

2) Most newer vehicles are designed to

- a. provide inefficient use of fuel.
- b. produce larger usable space and lower fuel mileage.
- c. increase fuel economy without reducing comfort, handling, or usable space.
- d. increase fuel economy at the expense of usable space.

3) Engine cooling fluid is

- a. distilled water.
- b. tap water from a faucet.
- c. a mixture of alcohol and water.
- d. a mixture of antifreeze and water.

4) Antifreeze is used in the

- a. brake system.
- b. windshield washer tank.
- c. cooling system.
- d. transmission and differential.

5) If the brake warning light comes on as you are driving, you should

- a. slow down and drive the vehicle home.
- b. have the brake system inspected immediately and repaired as needed.
- c. shut off the warning light.

d. ignore it the first time it happens.

6) Low inflation of your tires

- a. makes vehicle control easier.
- b. increases tire mileage.
- c. makes the vehicle harder to handle.
- d. increases fuel mileage.

7) Battery fluid is a

- a. strong base.
- b. weak acid.
- c. neutral material.
- d. strong acid.

8) If you notice your engine sounds louder and louder over time, you may have a hole in your

- a. bumper.
- b. muffler.
- c. cooling system.
- d. oil pan.

9) The type of tire that generally gives the best fuel mileage is the

- a. remanufactured tire.
- b. radial tire.
- c. bias-ply tire.
- d. belted tire.

10) A fuel-injection system delivers

- a. more fuel to the cylinders than a carburetor.
- b. twice the fuel mileage as a carburetor.
- c. the exact amount of fuel to each of the engine's cylinders at the proper time.
- d. half the fuel mileage as a carburetor.

11) Engine oil helps the engine operate efficiently by

- a. increasing heat in engine parts.
- b. increasing friction between engine parts.
- c. lubricating the transmission parts.
- d. reducing friction between engine parts.

12) The mechanism that generates electrical current used to recharge the battery is the

- a. alternator.
- b. battery vent caps.
- c. fuel pump.
- d. fan belt.

13) Do not use radial tires with any other type of tire on the same vehicle because they

- a. are the only tires rated for traction.
- b. require special wheels.
- c. are less reliable than other tire types.
- d. do not react in the same manner.

14) Periodic safety vehicle inspections are

- a. only required in Eastern and Midwestern states because of the bad winters.
- b. never required.
- c. required by some states.
- d. required by all states.

15) When the tread is worn down on a tire, the wear bar will appear

- a. smooth.
- b. circularly around the tire.
- c. jagged.
- d. red in color.

16) The thermostat controls the flow of

- a. coolant to cool the engine.

- b. air through the radiator.
- c. oil through the engine.
- d. fluid through the automatic transmission.

17)When most vehicles are driven at a speed higher than 55 mph,

- a. fuel mileage is unaffected.
- b. fuel mileage is increased.
- c. fuel mileage is cut in half.
- d. fuel mileage is decreased.

18)What engine is more efficient?

- a. large engine
- b. engine that needs a tune-up
- c. warm engine
- d. cold engine

19)To adjust disk and drum brakes,

- a. press the brake pedal hard enough to lock up the brakes.
- b. you must take the vehicle to a mechanic.
- c. stop, back up, and brake firmly.
- d. moderately press the brakes while driving ahead.

20)If the oil pressure warning light or gauge indicates low oil pressure while you are driving,

- a. pull over to the side of the road and shut off the engine.
- b. pull over to the side of the road and idle the engine.
- c. continue on for a few miles at a reduced speed.
- d. slow down and drive to a mechanic.

21)What does "preventive maintenance" mean?

- a. care given a vehicle to prevent trouble later
- b. maintenance given on a daily basis

- c. overhauling the engine
- d. care given a vehicle after trouble begins

22)"Mileage-Based-Maintenance" means

- a. certain maintenance tasks should be done after a certain number of miles regardless of time intervals.
- b. the same as time-based maintenance.
- c. certain maintenance tasks should be done on a regular schedule.
- d. driving conditions are as important as maintenance scheduling.

23)A low automatic transmission fluid level might

- a. cause high transmission fluid pressure.
- b. produce jerky shifting.
- c. shift in a normal manner at all times.
- d. increase fuel mileage.

24)To jump-start a battery, clamp the positive jumper cable to the positive terminal of the good battery. Then clamp the other end to the

- a. engine block of the vehicle with the good battery.
- b. engine block of the "dead" vehicle.
- c. positive terminal of the "dead" battery.
- d. negative terminal of the "dead" battery.

25)Your vehicle usually delivers 24 mpg in highway driving. How many miles can you expect to travel on 12 gallons?

- a. 386 miles
- b. 288 miles
- c. 325 miles
- d. 240 miles

26)The powerplant also is known as the

- a. transmission.
- b. drive shaft.

c. engine.

d. differential.

27) Ignoring a defect in the exhaust system increases the risk of

a. damaging spark plugs.

b. creating harmful exhaust gases.

c. carbon monoxide poisoning.

d. production of acid in exhaust gases.

28) If your vehicle has power steering, you should

a. avoid turning the steering wheel when the vehicle is not moving.

b. have a lot of play in the steering.

c. use radial tires.

d. never have to have it checked.

29) When working with, or around, a battery, always wear

a. an apron.

b. a hat.

c. heavy, steel-toed shoes.

d. eye protection and gloves.

30) If you used 16 gallons of fuel to drive 400 miles, your mpg is

a. 20.

b. 25.

c. 32.

d. 16.

31) A vehicle's electrical energy is stored in the

a. ignition system.

b. battery.

c. spark plug.

d. alternator.

32) Engine oil reduces friction

- a. between moving parts of the engine.
- b. in the water pump.
- c. in the chassis and suspension system.
- d. between transmission parts.

33) If you turn the ignition key while in neutral or park and there is no sound, it usually indicates

- a. the starter is bad.
- b. you're out of gas.
- c. you need to shift to first gear.
- d. a "dead" battery.

34) A tire's traction is measured by

- a. its ability to stop a vehicle in a straight line on wet pavement.
- b. its ability to stop a vehicle in a straight line on dry pavement.
- c. the number of belts it has.
- d. its size.

35) If the oil-pressure warning light comes on while you are driving, it means that

- a. oil pressure is adequate.
- b. the oil and oil filter should be replaced.
- c. oil pressure is inadequate.
- d. you have too much oil in the engine.

36) If you drive mostly on short, local trips, or on dirt roads, you may need to

- a. change the type of fuel used.
- b. change the oil and oil filter more often than recommended.
- c. change radiator coolant twice each year.
- d. change spark plugs often.

37) A disk brake works as fluid pressure

- a. forces brake shoes against the inside of the brake drum.
- b. causes the master cylinder to press against the brake pedal.
- c. squeezes pads against the turning disk.
- d. forces pads away from the turning disk.

38) The best guideline for your vehicle's preventive maintenance is

- a. the owner's manual.
- b. automobile magazine articles.
- c. information in automobile advertising.
- d. advice of friends and family members.

39) Each layer of material under the tread on a tire is called a

- a. belt.
- b. radial.
- c. ply.
- d. bar.

40) The transmission enables the engine to deliver power to the drive wheels by the

- a. power steering system.
- b. pistons.
- c. gears.
- d. spark plugs.

41) An automobile diagnostic center or clinic gives the vehicle owner

- a. a report listing all parts or systems that fail to work or meet acceptable standards.
- b. a schedule for routine maintenance.
- c. a box of needed replacement parts.
- d. a printout of preventive maintenance tasks.

42) The higher the treadwear rating of a tire, the

- a. more often you will have to replace it.
- b. bigger the vehicle must be that uses it.
- c. more miles the tire is expected to last.
- d. cheaper the tire.

43)The differential has gears that

- a. allow one drive wheel to turn faster than the other drive wheel in a turn.
- b. are controlled by the gear-shift lever.
- c. make it easier to start a vehicle moving.
- d. multiply the power produced by the wheels.

44)The catalytic converter

- a. draws fuel from the fuel tank.
- b. cools exhaust gases.
- c. reduces pollution from the exhaust gas.
- d. pumps fuel to the engine.

45)Wind resistance can be reduced by

- a. running the heater or air conditioner above 45 mph.
- b. keeping all windows closed above 45 mph.
- c. keeping all windows open above 45 mph.
- d. keeping the vehicle waxed with a low-resistance polish.

46)The springs in the suspension system

- a. support the vehicle to allow gentle up-and-down motion.
- b. transmit steering input force to the front wheels.
- c. control hard bouncing.
- d. adjust to roadway conditions.

47)The master cylinder is part of the

- a. brake system.

- b. fuel system.
- c. suspension.
- d. cooling system.

48) To jump-start a "dead" battery, connect the negative cable to

- a. the negative terminal of the "dead" battery.
- b. negative ground on the "dead" vehicle.
- c. the positive terminal of the good battery.
- d. the engine block of the vehicle with a good battery.

49) If a vehicle has a frozen battery

- a. hold a flame near the battery.
- b. immediately jump start the vehicle.
- c. pour cold water over the battery.
- d. do not jump start the vehicle.

50) The parking brake

- a. is used to slow the vehicle.
- b. is a separate brake system.
- c. works on front wheels only.
- d. is controlled by the master cylinder.