

1. Technician A says that a diaphragm carb has a vent hole in the metering cover. Technician B says that in a diaphragm carb there is an inlet screen located in the fuel pump chamber above the inlet needle.
 - a. Tech A is correct
 - b. Tech B is correct
 - c. Tech A&B are correct
 - d. Neither Tech A nor B are correct

2. Float type carbs do not typically contain an inlet screen. They rely entirely on _____.
 - a. fuel tank filter
 - b. inline fuel filter
 - c. paper air filter
 - d. both A & B

3. Which is closer to the engine and furthest from the air filter?
 - a. high speed mixture needle
 - b. idle mixture needle
 - c. low speed mixture needle
 - d. air compensating valve

4. With a mixture fuel mixture of 50:1, how much oil is added to a gallon of gas?
 - a. 2.8 ounces
 - b. 3.6 ounces
 - c. 4.3 ounces
 - d. 2.6 ounces

5. When lifted off its' seat what allows the correct amount of fuel to enter the float bowl?
 - a. Inlet needle
 - b. diaphragm
 - c. idle speed screw
 - d. bowl vent

6. What common problems might be associated with the use of alcohol blended fuel?
 - a. corrosion
 - b. phase separation
 - c. water in fuel
 - d. all of the above

7. Fuel can be stored for how long?

- a. six months
 - b. 3 months
 - c. till you notice water in the fuel
 - d. 1 month
8. Ports opposite each other in the combustion chamber are found in what engine?
- a. loop scavenged
 - b. transfer scavenged
 - c. cross scavenged
 - d. exhaust ported engines
9. Fuel/oil ratio is calculated by?
- a. ounces of fuel divided by ounces of air
 - b. ounces of fuel divided by ounces of oil
 - c. ounces of oil divided by ounces of fuel
 - d. ounces of fuel multiplied by ounces of oil times two
10. How do we maintain engine speed with a variety of operating conditions?
- a. governor
 - b. choke plate adjustment
 - c. high speed mixture needle
 - d. low speed mixture needle adjustment with a screwdriver
11. A loop scavenged engine typically has a _____ piston.
- a. flat top
 - b. deflector top
 - c. domed
 - d. dished
12. Octane is simply?
- a. fuel's ability to burn during cold weather
 - b. fuel's ability to resist spontaneous combustion due to excessive heat and/or pressure
 - c. fuel's heat value and can be describe in BTUs.
 - d. fuel's lubricity value and is only important when calculating fuel/oil ratio
13. Alcohol amounts up to ____ percent are acceptable to manufacturers.
- a. 6
 - b. 15
 - c. depends on what region you live in
 - d. 10

14. Alcohol amounts above the acceptable percentages may result in _____?

- a. rich mixture
- b. dieseling
- c. fuel atomization
- d. lean mixture

15. Technician A says that a condenser is found in a magneto ignition system. Technician B says that ignition coil output is controlled by the design of the coil.

- a. Tech A is correct
- b. Tech B is correct
- c. Both Techs A&B are correct
- d. Neither Tech A nor B is correct

16. Proper spark should be introduced when?

- a. ATDC
- b. TDC
- c. BDC
- d. BTDC

17. Heat range of a spark plug depends on _____.

- a. insulator nose length
- b. plug gap
- c. primary winding
- d. insulator material composition

18. The trigger in a CDI system is the _____.

- a. SCR
- b. diode switch
- c. mechanical points
- d. capacitor

19. New equipment may have _____ on adjustment screws to prevent tampering.

- a. limiter caps
- b. lock nuts and tamper proof washers
- c. metal lock pins
- d. paint to show if screw has been adjusted

20. Engine vibration can be caused by _____.

- a. not secure or broken engine mounts
- b. bent crankshaft
- c. excessive carbon in combustion chamber
- d. all of the above

21. What kind of test could be conducted to see if the crankcase is leaking pressure?
- a. leak-down test
 - b. pressure test with adapter plate
 - c. compression test
 - d. high speed idle test
22. Tech A says that a blocked muffler can cause engine over-speeding. Tech B says that a partially closed choke can cause over-heating.
- a. Tech A is correct
 - b. Tech B is correct
 - c. Both Techs A&B are correct
 - d. Neither Tech A nor B is correct
23. Pressure testing a carb tests _____?
- a. leaking inlet needle
 - b. leaking metering block
 - c. misadjusted intake valve
 - d. carbon build up
24. A two stroke engines has brittle gaskets. Why?
- a. fuel infiltration
 - b. alcohol contaminated
 - c. carb maladjustment
 - d. heat
25. Tech A says that a lean seizure can be caused by a worn spark plug electrode. Tech B says that a lean mixture can cause a white deposit on the spark plug.
- a. Tech A is correct
 - b. Tech B is correct
 - c. Both Techs A&B are correct
 - d. Neither Tech A nor B is correct



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