

1. Technician A says that DC current flows in two directions. Technician B says that AC current flows in two directions.
 - 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. A diode is a _____.
 - a. a temporary storage device
 - b. a one way check valve
 - c. an insulator
 - d. an electronic relay

3. A Capacitor is a _____.
 - a. a temporary storage device
 - b. a one way check valve
 - c. an insulator
 - d. an electronic relay

4. A circuit having only one load requires 12volts and has a resistance of 3 ohms. What is the current flow through this circuit?
 - a. 6 volts
 - b. 6 amps
 - c. 3 amps
 - d. 4 amps

5. A material that permits electrons to flow through it is called a _____.
 - a. a conductor
 - b. an insulator
 - C. a load
 - d. a wire

6. Ohms are the measurement of _____.
 - a. a load
 - b. the number of electrons that flow past a certain point in a certain amount of time
 - c. resistance
 - d. pressure

7. A switch is NC, which means the circuit is _____.
- a. shorted
 - b. closed
 - c. open
 - d. series
8. An Ohm meter is connected
- a. in series
 - b. in parallel
 - c. opposite from current flow
 - d. with the component out of the circuit
9. An example of a circuit protection device is a _____.
- a. both b and d
 - b. a fuse
 - c. a relay
 - d. a circuit breaker
10. The best tool to use to test an electrical circuit is a _____.
- a. a DVOM
 - b. a test light
 - c. a continuity tester
 - d. a hydrometer
11. In an ignition switch what terminals have continuity during the starting process?
- a. B and L
 - b. B and M
 - c. S and B
 - d. S and G
12. The key switch losses continuity between terminals B and M what would happen?
- a. the coil losses power
 - b. the coil will overheat from excess resistance
 - c. A short to ground is created
 - d. an open in the starter circuit is created
13. Will the starter be engaged with the key in the "open" position?
- a. no
 - b. depends on battery voltage
 - c. yes
 - d. in depends on the model of the equipment

14. A battery voltage test will indicate what?
- unwanted voltage
 - unwanted resistance
 - desired current flow
 - undesired high current flow
15. Technician A says that a battery contains six cells. Technician B says that each cell is 1.25 volts.
- Tech A is correct
 - Tech B is correct
 - Both Techs A&B are correct
 - Neither Tech A nor B is correct
16. The coil is a form of a what?
- Transponder
 - Transmitter
 - Transformer
 - inductive pick up
17. When starting an engine you hear a click from the solenoid, what would you test/investigate first?
- battery voltage
 - coil resistance
 - an open in the starting circuit
 - defective insulation
18. There is continuity in a diode in both directions. This is an example of what?
- desired effect
 - an open circuit
 - a faulty component
 - an AC circuit
19. The _____ the engine temperature, the greater the firing voltage required to push the spark through the densely packed fuel mixture.
- lower
 - leaner
 - richer
 - higher
20. The battery is charged by _____.
- Dc current
 - AC current
 - biased AC current
 - Induction

21. An engine has the proper fuel delivery and spark, but will not run. What could be the cause?
- a. a broken starter recoil spring
 - b. a broken flywheel key
 - c. a plug with the incorrect heat range
 - d. correct compression
22. Tech A says that the high voltage side of the coil is the secondary side. Tech B says that the primary side of the coil is directly connected to 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
23. A parallel circuit has two branched with one load per branch. Each load has a resistance of 2 ohms. The total voltage is 24 volts. What is the current flow of each branch?
- a. 2 amps
 - b. 1 amp
 - c. 24 amps
 - d. 12amps
24. The rings are worn and the plug fouls from oil. What might you try to do?
- a. a hotter plug
 - b. increase the air gap of the armature
 - c. use a thicker oil
 - d. check the crankcase breather for an obstruction
25. Tech A says that points were phased out because they do not comply with stricture emissions regulations. Tech B says that the SCR must be adjusted to maintain the proper air gap.
- 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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