

Automotive Technology Essentials

Automotive Technology · Practice Test · 15 Questions

1. What is the primary purpose of an alternator in a vehicle?

- A) To ignite the fuel mixture
- B) To charge the battery while the engine is running
- C) To cool the transmission fluid
- D) To measure the speed of the wheels

2. Which component is responsible for timing the opening and closing of engine valves?

- A) Piston ring
- B) Camshaft
- C) Spark plug
- D) Oil pump

3. What does the 'ABS' acronym stand for in automotive braking systems?

- A) Automatic Braking System
- B) Advanced Battery Safety
- C) Anti-lock Braking System
- D) Accelerated Brake Sensor

4. In a standard internal combustion engine, what is the function of a spark plug?

- A) To lubricate the cylinder walls
- B) To convert exhaust gases into oxygen
- C) To ignite the air-fuel mixture
- D) To filter impurities from the fuel

5. Which fluid is most commonly used to transfer power in automatic transmissions?

- A) Engine oil
- B) Brake fluid
- C) Transmission fluid
- D) Coolant

6. What component connects the transmission to the drive wheels in a rear-wheel-drive vehicle?

- A) Drive shaft
- B) Air filter
- C) Radiator
- D) Fuel rail

7. What is the main function of a vehicle's catalytic converter?

- A) To increase horsepower
- B) To reduce harmful exhaust emissions
- C) To improve fuel efficiency
- D) To suppress engine noise

8. Which component regulates the temperature of the engine by controlling the flow of coolant?

- A) Water pump
- B) Radiator cap
- C) Thermostat
- D) Condenser

9. What is the primary role of a timing belt or timing chain?

- A) To synchronize the rotation of the crankshaft and camshaft
- B) To drive the air conditioning compressor
- C) To measure the engine's RPM
- D) To charge the ignition system

10. What device allows the wheels on the same axle to rotate at different speeds during a turn?

- A) Transmission
- B) Differential
- C) Transfer case
- D) Clutch

11. Which part of the car's suspension system absorbs shocks from the road surface?

- A) Brake rotor
- B) Strut or shock absorber
- C) Tie rod
- D) Control arm

12. What is the purpose of the intake manifold?

- A) To exhaust burnt gases
- B) To distribute air to the engine cylinders
- C) To filter debris from the engine oil
- D) To store electrical energy

13. What does the 'VIN' on a vehicle stand for?

- A) Vehicle Identification Number
- B) Vehicle Inspection Network
- C) Variable Ignition Node
- D) Velocity Indicator Notch

14. Which component in an engine acts as a seal between the engine block and the cylinder head?

- A) Piston ring
- B) Head gasket
- C) Oil seal
- D) Valve seal

15. What is the function of the fuel injector?

- A) To pump fuel from the tank
- B) To spray fuel into the combustion chamber
- C) To measure fuel density
- D) To cool the fuel before it enters the engine