

AT7 Chapter 15 A1 11 Questions

Gasoline Engine Operation, Parts, and Specifications

1. What type of engine has the valves in the block?

- A. Internal combustion engine
- B. Rotary engine
- C. Flat-head engine
- D. V-type engine

2. What is the most common engine cycle used in automotive vehicles?

- A. Two-stroke cycle
- B. Three-stroke cycle
- C. Four-stroke cycle
- D. Five-stroke cycle

3. What type of engine has cylinders in a straight line?

- A. Longitudinally mounted engine
- B. Transversely mounted engine
- C. Flat-head engine
- D. Inline engine

4. What is the process of converting the chemical energy of the fuel into heat energy called?

- A. Combustion
- B. Propelling
- C. Cooling
- D. Machining

5. What is the purpose of the cylinder head?

- A. To cast and machine the engine block
- B. To provide a cooling system
- C. To seal the top of the cylinders
- D. To install other parts on the engine block

6. What type of energy does the engine convert the heat energy of burning fuel into?

- A. Chemical energy
- B. Mechanical energy
- C. Heat energy
- D. Electrical energy

7. What is the purpose of the cooling system?

- A. To control engine temperatures
- B. To cast and machine the engine block
- C. To install other parts on the engine block
- D. To provide a combustion chamber

8. What is the formula for calculating an engine's horsepower?

- A. $\text{Horsepower} = \text{Torque} \times \text{RPM} / 5252$
- B. $\text{Horsepower} = \text{Torque} \times \text{RPM} / 5252$
- C. $\text{Horsepower} = \text{Torque} + \text{RPM} / 5252$
- D. $\text{Horsepower} = \text{Torque} - \text{RPM} / 5252$

9. What is the distance the piston travels from top dead center to bottom dead center referred to as?

- A. Displacement
- B. Stroke
- C. Torque
- D. Power

10. What is the voltage needed to jump the gap of a spark plug?

- A. 5 volts
- B. 12 volts
- C. 40,000 volts
- D. 5,000 volts

11. What are the two systems needed for an engine to operate?

- A. Fuel system and ignition system
- B. Displacement and voltage
- C. Torque and angle
- D. Ignition system and crankshaft

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1. C
2. C
3. D
4. A
5. C
6. B
7. A
8. B
9. B
10. D
11. A