

Automotive Technology History and Engineering

Automotive Technology · Answer Key · 12 Questions

1. In what year did Karl Benz receive the patent for his 'Motorwagen', widely considered the first modern automobile?

- A) 1886**
- B) 1892
- C) 1901
- D) 1908

2. The Ford Model T, the first automobile mass-produced on moving assembly lines, was introduced in which year?

- A) 1905
- B) 1908**
- C) 1912
- D) 1915

3. What is the standard number of strokes in a typical Otto cycle internal combustion engine?

- A) 2
- B) 4**
- C) 6
- D) 8

4. In 1967, which company produced the first mass-produced car to feature a Wankel rotary engine, the Cosmo Sport?

- A) Toyota
- B) Honda
- C) Mazda**
- D) Nissan

5. The first three-point seatbelt, now standard in all vehicles, was developed by Nils Bohlin for Volvo in what year?

- A) 1955
- B) 1959**
- C) 1963
- D) 1967

6. Which company launched the Prius, the world's first mass-produced hybrid electric vehicle, in 1997?

- A) Toyota**
- B) Honda
- C) Mitsubishi
- D) Subaru

7. How many cylinders are found in a standard 'V6' engine configuration?

- A) 4
- B) 6**
- C) 8
- D) 12

8. The first hydraulic brake system was patented by Malcolm Loughead in what year?

- A) 1910
- B) 1917**
- C) 1924
- D) 1930

9. What is the stoichiometric air-fuel ratio for gasoline engines, representing the chemically correct ratio for complete combustion?

- A) 12.7:1
- B) 13.5:1
- C) 14.7:1**
- D) 15.2:1

10. In 1939, Oldsmobile introduced the 'Hydra-Matic', which was the first mass-produced vehicle to feature what technology?

- A) Power steering
- B) Automatic transmission**
- C) Disc brakes
- D) Cruise control

11. The Tesla Model S was first delivered to customers in which year, marking a shift in electric vehicle market adoption?

- A) 2008
- B) 2010
- C) 2012**
- D) 2014

12. How many gears are typically found in a standard manual transmission setup for passenger cars in the mid-20th century?

A) 2

B) 3

C) 5

D) 6