

Automotive Engineering

1. For which of the following reason(s) is it advisable to lubricate all moving parts of an engine?
A .To increase friction
B. To reduce friction
C. To increase velocity
D. To reduce velocity
 - a. Only A
 - b. Only B
 - c. Both A and C
 - d. Both A and D

2. What is the use of Damper spring in a clutch system?
 - a. Softens the torsional vibration produced when the friction plate is pressed by the pressure plate
 - b. To exert pressure on the driven plate
 - c. Store kinetic energy and release it when needed,
 - d. None of the above.

3. Which of the following is a remedy for air in the hydraulic system problem?
 - a. Bleed the system
 - b. Adjust the brake pedal
 - c. Use brake oil
 - d. None of these

4. The part of the rim that provides lateral support to the tire is known as _____.
 - a. Well
 - b. Bead seat
 - c. Flange
 - d. Gutter

5. Which of the following is preferred to tighten cylinder head bolts?
- a. Ring spanner
 - b. Ratcheting box wrench
 - c. Open-ended spanner
 - d. All of the above
6. What is the use of distributor in a spark ignition engine?
- a. For providing correct firing order
 - b. For breaking and mixing the fuel with air
 - c. For providing high voltage to the spark plug
 - d. For removing the burnt exhaust gases
7. Which of the following statements is/are false?
- a. The spark plug gap is normally kept at 0.8 mm to 1.0 mm
 - b. A fuel will detonate less if it has lower self-ignition temperature
 - c. The relative fuel-air ratio (Fr) is equal to (chemically correct fuel air ratio)/actual fuel-air ratio
 - d. All of the above
8. Torque converter is a type of hydrodynamic coupling. What is the key characteristic of a torque converter?
- a. It transmits torque from the prime mover to the drive axles directly
 - b. It multiplies torque when there is a substantial difference between input & output rotational speed
 - c. It acts as a replacement of transmission to control the speed of the vehicle
 - d. It decreases the torque at the wheels
9. What is/are the thing(s) to check when an engine does not start/crank?
- a. Battery
 - b. Fuel
 - c. Clutch
 - d. Brake oil
 - e. Both a and b