

Sample Questions

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?
- Ring spanner
 - Ratcheting box wrench
 - Open-ended spanner
 - All of the above
6. What is the use of distributor in a spark ignition engine?
- For providing correct firing order
 - For breaking and mixing the fuel with air
 - For providing high voltage to the spark plug
 - For removing the burnt exhaust gases
7. Which of the following statements is/are false?
- The spark plug gap is normally kept at 0.8 mm to 1.0 mm
 - A fuel will detonate less if it has lower self-ignition temperature
 - The relative fuel-air ratio (F_r) is equal to (chemically correct fuel air ratio)/actual fuel-air ratio
 - All of the above
8. Torque converter is a type of hydrodynamic coupling. What is the key characteristic of a torque converter?
- It transmits torque from the prime mover to the drive axles directly
 - It multiplies torque when there is a substantial difference between input & output rotational speed
 - It acts as a replacement of transmission to control the speed of the vehicle
 - 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

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