

## 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?

- 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 ( $F_r$ ) 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

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