GARVIT SHAH
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- **Aim :** To study cruze gasoline vehicle.

- **Objective :** To study the following systems for cruze gasoline vehicle :

1. Transmission system
2. Steering & System
3. Wheel alignment & Wheel balancing
4. Ignition system
5. Braking system

- **Specifications of Vehicle :**

Model : Chevrolet Cruze LT
No. of cylinders : 4
Displacement : 1998 cc
Max. torque : 380 N-m @ 2000 rpm
Engine torque : VCD; 16V DOHC

- **Questions :**

Q.1. Explain transmission system for cruze vehicle.

A.1. • Chevrolet cruze LT & LTZ variants comes with 6-speed manual transmission while its top varient offered with 6-speed automatic transmission.

• It has automatic transmission which has a shift lever located on the console between the seats.

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- P (Park) : This position locks the drive wheels. It is the best position to use when starting the engine because the vehicle cannot move easily.
- R (Reverse) : Use this gear to back up.
- N (Neutral) : In this position, the engine does not connect with the wheel.
- D (Drive) : This position is for driving.

Q.2. Explain ~~steer~~ ~~strc~~ steering ~~shaft~~ system for one vehicle.

A.2. • The steering shaft is attached to the pinion in the steering gear.
- The pinion rotates with the steering wheel.
- The power steering pressure hose connects the power steering pump union fitting to the power steering gear & allows pressurised power steering fluid to flow from the pump to the gear.

Q.3. Explain wheel alignment & wheel balancing for cruze vehicle.

A.3. • The tyres & wheels were aligned & balanced at the factory to provide the longest tire life & best performance.

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- Adjustment to wheel alignment & fire balancing will not be necessary on a regular basis.
- However check the alignment if there is unusual ~~fire~~ tyre balancing ~~is~~ will not be necessary on a regular basis.
- However check the alignment if there is unusual tyre wear as if the vehicle is pulling to one side as the other.

Q.4. Explain ignition system for cruze vehicle.

A.4.
- The vehicle has an elaborate keyless ignition with push button start.
- Pressing the button cycles it through three modes Accelerate E, ON/START & stopping the engine off.
- The transmitter must be in the vehicle for the system to operate.
- If the push button start is not working, the vehicle may be near a ~~s~~strong radio antenna signed crushing interferring to the keyless access system.

Q.5 Explain the breaking the system for cruze vehicle

A.5.
- It has anti-lock~~ag~~ breaking system.
- The ABS helps the car in so many ways.
- It prevents the wheels from locking up when immediate brakes are applied.
- It minimizes the chances of collision or accident.

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- The car also comes with electronic brake force distribution system & brake assist.

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