**Subject Name: Fundamentals of Automobile Engines (313312) Date:- 22/08/2024**

**Assignment No: - 3 Course Outcome: 313.3**

**Topic Name: - Fuel and Air feed system**

1. Explain gravity feed system with neat sketch?
2. List different components of fuel supply system? Explain relevance of fuel filter with neat sketch.
3. Write short note on solex carburetor.
4. Write short note on air-fuel mixture requirement.
5. Enlist various circuit in carburettor. Explain choke circuit with neat sketch.
6. List different fuel injection systems used in C.I. engines? Explain any one in detail with neat sketch.
7. List different types of nozzles used in fuel injection system? Explain with neat sketch.
8. Write short note on fuel metering in FIP.
9. Write short note on mechanical governor.
10. Give principles of operation of carburettor? Explain with neat sketch.

**Subject Name: Fundamentals of Automobile Engines (313312) Date:- 22/08/2024**

**Assignment No: - 4 Course Outcome: 313.4**

**Topic Name: - Ignition and Exhaust system**

1. Explain magneto ignition system with sketch.
2. Write short note on battery ignition system.
3. Enlist four disadvantages of conventional ignition system.
4. List the types of exhaust systems used in automobiles? Explain any two in detail.
5. Write short note on catalytic converter.
6. List the different types of mufflers used in exhaust systems? Explain any three with neat sketch.

**Subject Name: Fundamentals of Automobile Engines (313312) Date:- 22/08/2024**

**Assignment No: - 5 Course Outcome: 313.5**

**Topic Name: - Engine cooling and lubrication system**

1. Enlist various methods of I.C. engine lubrication. Explain any two with neat sketch..
2. Give classification of lubrication oil based on viscosity.
3. Write short note on positive crankcase ventilation.
4. Give essential components of lubricating system. Explain any two with neat sketch.
5. Explain in brief the methods of cooling of I.C. engine.
6. Differentiate between air cooling system and water cooling system.
7. Explain the purpose of fins in an air-cooled system.