

- Q.29 Describe the various phases of combustion in SI Engine (CO1)
- Q.30 Write the ways to reduce detonation. (CO1)
- Q.31 Explain the functions and working of wankel engine. (CO7)
- Q.32 Explain the various sources of Automotive Emission. (CO6)
- Q.33 Describe the working of Camless Engine. (CO7)
- Q.34 Enlist the techniques of improving engine economy and output. (CO1)
- Q.35 Explain the working of Opposed Piston Opposed Cylinder(OPOC) engine. (CO7)

#### **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the various methods and techniques of Emission Control in I.C. Engines. (CO5)
- Q.37 Explain the working of plunger and barrel type fuel Injection pump with the help of neat diagram. (CO2)
- Q.38 Discuss the various types of combustion chambers used in Diesel Engines. (CO1)

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**5th Sem / Auto  
Subject:- Auto Engine - II**

Time : 3Hrs. M.M. : 100

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Octane rating is used for fuel used in (CO1)
- a) Petro Engine b) Diesel Engine
  - c) Carnot Engine d) Steam Engine
- Q.2 Which of the following is/are method(s) of producing air movement in CI Engine:- (CO1)
- a) Squish b) Swirl
  - c) Both (a) and (b) d) Neither (a) nor (b)
- Q.3 Turbocharger increases the efficiency of CI engine by increasing (CO3)
- a) Fuel supply b) Coolant supply
  - c) Air supply d) Lubricant supply
- Q.4 Combustion chamber in an engine is the space where (CO1)
- a) air fuel mixture is ignited
  - b) fuel combines with lubricant
  - c) Vacuum is created
  - d) Exhaust gases are stored

- Q.5 CRDI stands for (CO2)
- a) Common Rail Dual Injection
  - b) Common Route Dual Injection
  - c) Combined Rail Direct Injection
  - d) Common Rail Direct Injection
- Q.6 Wheel Motor is used in : (CO7)
- a) CNG Engine      b) HCCI engine
  - c) Electric Vehicle    d) Supercharger
- Q.7 Engine overheating may be due to : (CO4)
- a) Faulty fuel pump    b) Discharged battery
  - c) Leakage of coolant    d) Faculty catalyst
- Q.8 Lead in exhaust gases may damage (CO5)
- a) brain      b) digestion system
  - c) Lungs      d) Hair
- Q.9 Opposed Piston opposed cylinder engine have (CO7)
- a) Two pistons      b) Three Pistons
  - c) Four pistons      d) One Piston
- Q.10 Engine capacity of Maruti Suzuki swift is (CO1)
- a) 800 CC      b) 1000 CC
  - c) 1200 CC      d) 1500 CC

### **SECTION-B**

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Define Turbulence (CO1)

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- Q.12 Expand CNG. (CO7)
- Q.13 Define priming. (CO2)
- Q.14 Define fuel injection pump (CO3)
- Q.15 Write the full form of HCCI engine (CO7)
- Q.16 Define Engine overheating (CO4)
- Q.17 Name two types of alternate fuels used in automobiles. (CO2)
- Q.18 Write the use of Turbochargers. (CO3)
- Q.19 Define Abnormal Combustion. (CO1)
- Q.20 Write the use of Fuel filter? (CO2)

### **SECTION-C**

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Give classification of Engines used in automobiles. (CO1)
- Q.22 Describe the working of fuel injector. (CO3)
- Q.23 Explain the working and types of Governors used in automobiles. (CO2)
- Q.24 Define Cetane rating. (CO1)
- Q.25 Give advantages and disadvantages of supercharging of Engines. (CO2)
- Q.26 Give classification of fuel feed system used in spark ignition system. (CO2)
- Q.27 Discuss the working of Battery ignition system
- Q.28 Discuss the working of carburetor.

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