

- 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)

No. of Printed Pages : 4

180351/170351/120351

Roll No. ....

/030351

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

### SECTION-B

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

- Q.11 Define Turbulence (CO1)

(2) 180351/170351/120351  
/030351

- 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.

(3) 180351/170351/120351  
/030351