

- Q.30 Explain different types of nozzles fitted in fuel injector (CO3)
- Q.31 Write in detail about CNG engine (CO6)
- Q.32 How catalytic converter reduce the emission (CO5)
- Q.33 Explain the different Combustion pollutants of petrol engine. (CO5)
- Q.34 Describe the function of positive crank case ventilation (CO5)
- Q.35 Write the engine specification of Maruti Suzuki Baleno car (CO6)

SECTION-D

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

- Q.36 Explain the different types of combustion Chambers for diesel engine with diagram. (CO1)
- Q.37 Explain the working of plunger and barrel type fuel injection pump with diagram (CO2)
- Q.38 Explain the working of rotary engine with diagram (CO3)

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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 In SI engine flame speed increases (CO1)
 a) With turbulence b) with air fuel ratio
 c) Both a & b d) none of the these
- Q.2 The ignition quality of petrol is expressed by (CO1)
 a) Cetane no b) Octane no
 c) Calorific value d) none of these
- Q.3 Detonation can be controlled by (CO1)
 a) Reducing the RPM
 b) Retarding the Spark timing
 c) Varying the compression ratio
 d) All the above
- Q.4 Compression ratio of petrol engine is (CO2)
 a) 2 to 3 b) 7 to 10
 c) 16 to 20 d) none of the above

- Q.5 In which stroke fuel is injected in CI engine (CO2)
 a) Section stroke b) compression stroke
 c) expansion stroke d) Exhaust stroke
- Q.6 Types of supercharger are (CO2)
 a) Reciprocating type b) gear type
 c) centrifugal type d) none of the above
- Q.7 The thermodynamic cycle on which diesel engine works (CO3)
 a) Otto cycle b) diesel cycle
 c) Dual cycle d) rankine cycle
- Q.8 Blue smoke in diesel engine indicate (CO5)
 a) NOx b) HC
 c) CO d) unburnt oil
- Q.9 Which is the most preferred SI engine fuel (CO5)
 a) Aromatics b) Paraffins
 c) Olefins d) Napthenes
- Q.10 Which phase of vehicle emission standards is currently implemented in India. (CO5)
 a) BS-II b) BS-III
 c) BS-IV d) BS-VI

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Octane rating is used for _____ fuel. (CO1)
- Q.12 SI engines are called _____ engine. (CO2)

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- Q.13 OPOC use _____ no. of piston. (CO6)
- Q.14 Give the full form of CNG (CO3)
- Q.15 Petrol engine works on _____ cycle. (CO3)
- Q.16 Write the CC of Maruti Swift petrol car (CO6)
- Q.17 Write the full form of HCCI engine. (CO3)
- Q.18 _____ is the rotary engine. (CO3)
- Q.19 Write one cause of engine overheating. (CO4)
- Q.20 Full form of EGR is _____ (CO5)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Write a note on squish and swirl phenomenon in SI engine. (CO1)
- Q.22 Write a short note on ignition lag (CO1)
- Q.23 Describe Cetane in rating in detail. (CO1)
- Q.24 Explain any one type of fuel filter with diagram. (CO2)
- Q.25 Describe the phenomenon of knocking in CI engine. (CO1)
- Q.26 Describe the working of supercharger. (CO2)
- Q.27 Differentiate between petrol engine and diesel engine. (CO3)
- Q.28 Discuss the five reasons of high fuel consumption. (CO4)
- Q.29 Explain the working of fuel cell engine. (CO3)

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