Q.26 Write a short note on Engine overheating and its remedies? (CO3)

Q.27 What is Homogeneous charge compression ignition (HCCI) Engine. (CO2)

Q.28 Write about EURO Norms for reducing pollution. (CO4)

Q.29 What is function of Nozzle in Engine? How many types of nozzles are there? (CO2)

Q.30 What is CRDI system in Engines? (CO4)

Q.31 What are various types of Governors in Diesel Engines? (CO2)

Q.32 Write a short note on Turbocharged Engines. (CO3)

Q.33 What are Hybrid Vehicles? What are types of Hybrid vehicles? (CO2)

Q.34 Explain working of four stroke Diesel Engine(CO1)

Q.35 What is Effect of Exhaust Emission on Human Health ? (CO5)

SECTION-D

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

Q.36 What are various methods of exhaust emission control in Engine? (CO5)

Q.37 What are different combustion chambers of S.I Engine ? Explain them. (CO3)

Q.38 Write a short note on (CO2)

a) CNG Engines

b) Fuel Cell Car

(**Note:** Course outcome/CO is for office use only)

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5th Sem / Automobile Engineering

Subject:- Auto Engine - II

Time : 3Hrs. M.M. : 100

SECTION-A

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

Q.1 The ignition quality of petrol is expressed by (CO1)

a) Cetane Number b) Octane Number

c) Calorific Value d) All of the above

Q.2 The probability of knocking in diesel engines is increased by (CO2)

a) High self ignition temperature

b) Low Volatility

c) Higher Viscosity

d) All of the above

Q.3 The maximum temperature in the I.C. engine cylinder is of the order of (CO2)

a) 500-1000°C b) 1000-1500° C

c) 1500-2000°C d) 2000-2500° C

Q.4 The knocking in spark ignition engines can be reduced by (CO3)

a) Retarding the spark

b) Increasing the engine speed

c) Both A and B
d) None of the above

Q.5 The pressure at the end of compression, in Diesel Engines, is approximately (CO4)
a) 10 bar b) 20 bar
c) 25 bar d) 35 bar

Q.6 Engine Pistons are usually made of Aluminium alloy because it (CO1)
a) is lighter b) wear is less
c) Absorbs shocks d) it is stronger

Q.7 The reason for Supercharging in any engine is to (CO3)
a) Increase efficiency
b) Increase power
c) Reduce weight and bulk for a given output
d) Effect fuel economy

Q.8 The thermodynamic cycle on which Diesel Engine works is (CO3)
a) Otto cycle b) Diesel cycle
c) Dual cycle d) Rankine cycle

Q.9 The thermal efficiency of a petrol and gas Engines is about (CO2)
a) 15% b) 30%
c) 50% d) 70%

Q.10 A spark plug gap is kept from
a) 0.3 to 0.7 mm b) 0.2 to 0.8 mm
c) 0.4 to 0.9 mm d) 0.6 to 1.0 mm

SECTION-B

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

Q.11 What is the air fuel ratio of diesel Engine? (CO1)
Q.12 What is full form of CNG. (CO1)
Q.13 What is formula to calculate Indicated power of Engine? (CO2)
Q.14 How will you test Nozzles? (CO3)
Q.15 What is EGR in Engine. (CO4)
Q.16 How much cubic center capacity (CC) of Hundai Venue 2021 model Car (CO5)
Q.17 Diesel Engine works on_____Cycle. (CO1)
Q.18 What is knocking in Engine. (CO3)
Q.19 What is Cetane Number ? (CO5)
Q.20 Write two causes of high fuel consumption of Car. (CO2)

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 S.I Engine. (CO1)
Q.22 Explain the Phenomenon of Detonation in S.I Engines in detail. (CO2)
Q.23 Write short note on Opposed piston opposed cylinder Engine. (CO4)
Q.24 What are various causes of high oil consumption in Engine? (CO3)
Q.25 Write Engine specifications of Maruti Suzuki Baleno Car. (CO5)