

- Q.28 Write the use of intake and exhaust manifold.
- Q.29 Explain Crank case ventilation.
- Q.30 Describe the working of Fuel gauge.
- Q.31 Give advantages and disadvantages of MPFI system.
- Q.32 Give necessity of cooling and lubrication system in engines.
- Q.33 Enumerate the main types of lubricants used in IC engine & give examples.
- Q.34 Describe the working of fuel feed pump with sketch.
- Q.35 Explain the working of spark plug used in ignition system.

Section-D

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

- Q.36 Explain various troubles and remedies associated with Lubrication system.
- Q.37 Discuss in detail the working of Magneto ignition system with diagram.
- Q.38 What is morse test? Explain the procedure to find out Indicated power of a multicylinder IC engine without using an indicator.

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4th Sem. / Auto Engg. Sub : AUTO Engine - 1

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 The brake power is the power available
a) In the engine cylinder b) At the crank shaft
c) At the crank pin d) None of these
- Q.2 A petrol engine has compression ratio from
a) 6 to 10 b) 10 to 15
c) 15 to 20 d) 20 to 25
- Q.3 Which of the following fuel detonates readily?
a) Benzene b) Iso-Octane
c) Normal heptane d) Alcohol
- Q.4 The function of a distributor in a coil ignition system of I.C. engine is
a) To distribute spark b) To distribute power
c) To distribute current d) To time the spark

- Q.5 The firing order in an I.C. engine depends upon
- Arrangement of the cylinders
 - Design of crankshaft
 - Number of cylinders
 - All of these
- Q.6 A carburettor is used to supply the mixture of -
- Petrol, air and lubricating oil
 - Air and Diesel
 - Petrol and Lubricating Oil
 - Petrol and Air
- Q.7 The Octane number of petrol, generally available is
- 20 to 40
 - 40 to 60
 - 60 to 80
 - 80 to 100
- Q.8 The injection pressure in an diesel engine is about
- 10 bar
 - 100 bar
 - 200 bar
 - 500 bar
- Q.9 If the compression ratio in I.C. engine increases, then its thermal efficiency will
- Decrease
 - Increase
 - Remain same
 - None of these
- Q.10 IN a cycle, the spark lasts roughly for
- 0.2 sec
 - 0.1 sec
 - 0.02 sec
 - 0.001 sec

Section-B

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

- Q.11 Define relative efficiency of an I.C. engine.
- Q.12 Write the use of spark plug.
- Q.13 Define carburetion.
- Q.14 Define Friction power.
- Q.15 Define Bore.
- Q.16 Give the definition of Engine Torque.
- Q.17 Name any one multi cylinder Test.
- Q.18 Write the use of Fuel filter.
- Q.19 Define compression test.
- Q.20 Write the use of thermostat in radiator.

Section-C

Note: Short answer type Questions. Attempt any twelve questions out of fifteen Questions. (12x5=60)

- Q.21 Explain the working of Electronic Ignition system.
- Q.22 Write the working of splash lubrication system.
- Q.23 Write purpose and objectives of Testing of I.C. engines.
- Q.24 Explain petrol injection system.
- Q.25 Give various desirable properties of Lubricants.
- Q.26 Discuss the functions of distributor in ignition system.
- Q.27 Give the advantages of Water cooling system.