

- 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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Sub : AUTO Engine - 1

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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

- a) Arrangement of the cylinders
- b) Design of crankshaft
- c) Number of cylinders
- d) All of these

Q.6 A carburettor is used to supply the mixture of -

- a) Petrol, air and lubricating oil
- b) Air and Diesel
- c) Petrol and Lubricating Oil
- d) Petrol and Air

Q.7 The Octane number of petrol, generally available is

- a) 20 to 40 b) 40 to 60
- c) 60 to 80 d) 80 to 100

Q.8 The injection pressure in an diesel engine is about

- a) 10 bar b) 100 bar
- c) 200 bar d) 500 bar

Q.9 If the compression ratio in I.C. engine increases, then its thermal efficiency will

- a) Decrease b) Increase
- c) Remain same d) None of these

Q.10 IN a cycle, the spark lasts roughly for

- a) 0.2 sec b) 0.1 sec
- c) 0.02 sec d) 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.