

- Q.18 Write the limitations of petrol injection. (CO-3)
- Q.19 Write short note on ignition advance. (CO-3)
- Q.20 What are the applications of air cooling? (CO-4)
- Q.21 What are the advantages of mist lubrication system? (CO-5)
- Q.22 What is an oil filter and write its type? (CO-1)

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Explain various sensors used in MPFI system. (CO-3)
- Q.24 Differentiate between magneto ignition system and battery ignition system. (CO-3)
- Q.25 Explain crank case ventilation requirement methods. (CO-2)

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4th Sem / Automobile Engineering

Subject : Auto Engine-I

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 If clearance volume of IC engine increases, the compression ratio (CO-1)
- a) Also increases b) Decreases
- c) Doubles d) Remains constant
- Q.2 The cross section of connecting rod is usually of (CO-1)
- a) I-shape b) L-shape
- c) C-shape d) H-shape
- Q.3 Mechanical efficiency is always (CO-2)
- a) Greater than one b) Less than one
- c) Equal to one d) Zero

- Q.4 The advantage of petrol injection is (CO-3)
- a) Higher power
 - b) Low specific fuel consumption
 - c) Quick starting
 - d) All of these

- Q.5 The part of ignition system which steps up the voltage from 12V to more than 10000V is (CO-3)
- a) Coil
 - b) Condenser
 - c) Contact breaker
 - d) Distribution

- Q.6 Which of the following is not a component of water-cooling system (CO-1)
- a) Radiator
 - b) Fan
 - c) Motor
 - d) Pump

SECTION-B

Note: Objective/ Completion type of questions. All questions are compulsory. (6x1=6)

- Q.7 The volume displaced by the piston while travelling from top to bottom dead center is called _____ (CO-1)

- Q.8 Late closing of valve either at inlet or at exhaust is called _____ (CO-3)

- Q.9 The difference between indicated power and brake power is called to _____ (CO-6)

- Q.10 MPFI system uses a small computer known as _____ (CO-3)

- Q.11 Contact Breaker is used to _____ the circuit of ignition system. (CO-3)

- Q.12 Plunger pump is a _____ type of pump. (CO-4)

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Compare four stroke and two stroke cycle engine. (CO-1)

- Q.14 Write the functions of compression rings and oil control rings. (CO-2)

- Q.15 Explain the rope brake dynamometer with the help of diagram. (CO-6)

- Q.16 Write the advantages of MPFI system. (CO-3)

- Q.17 Write about Bi-metal type electric fuel gauge (CO-2)