

- ### SECTION-D
- Note: Long answer questions. Attempt any two questions out of three Questions. (2x10=20)**
- Q.36 Explain principle and working of 4 stroke diesel engine with neat sketch. (CO-1)
- Q.37 Describe theoretical and actual valve timing diagram of 4 stroke petrol engine. (CO-2)
- Q.38 Explain working of water cooling system in detail with neat diagram. (CO-5)

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4th Sem. / Auto
Subject : Auto Engine I

Time : 3 Hrs. M.M. : 100

SECTION-A

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

- Q.1 Compression ratio of CI Engine is
- a) 15:1 b) 20:1
c) 9:1 d) 4:1
- Q.2 SI Engine Stands for
- a) Spark Ignition b) Suction Ignition
c) Secondary Ignition d) None
- Q.3 Bore of Engine is the
- a) Volume of cylinder
b) Length of cylinder
c) Diameter of cylinder
d) Distance between TDC & BDC
- Q.4 A single cylinder which has power stroke in every two revolution of crank shaft is called
- a) Single Stroke b) Two Stroke
c) Three Stroke d) Four Stroke

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- Q.5 Crankshaft is of following section
 a) I-Section b) Round Section
 c) Triangular Section d) Square Section
- Q.6 The quantity of heat lost of the exhaust system in IC engine is
 a) 10% b) 25%
 c) 45% d) 70%
- Q.7 In 4 stroke scooter engine, cylinder is lubricated by
 a) Pressure lubrication b) Splash lubrication
 c) Petroil lubrication d) None
- Q.8 Ignition coil is used to
 a) Step up current b) Step up voltage
 c) Step down current d) Step up power
- Q.9 Cooling System
 a) Minimize wear
 b) Keeps the Engine parts cool
 c) Washes away dirt
 d) All above
- Q.10 Following is the CI engine
 a) Petrol Engine b) Diesel Engine
 c) Gas Engine d) None

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SECTION-B

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

- Q.11 Write full form of TDC.
- Q.12 Compression ratio of Petrol engine is higher than Diesel Engine. (True/False)
- Q.13 Write full form IC engine.
- Q.14 Define Stroke of cylinder.
- Q.15 Write material for cylinder head.
- Q.16 Thermostat is the part of system. (Lubrication / Cooling / Ignition)
- Q.17 Define clearance volume.
- Q.18 Write full form of IHP.
- Q.19 Diesel engine works on cycle.
- Q.20 Write the Function of Anti-Freeze Solution.

SECTION-C

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

- Q.21 Write five difference between SI engine and CI engine. (CO-2)
- Q.22 Describe concept of compression ratio. (CO-1)
- Q.23 Explain functions of gudgeon pin and crankpins. (CO-2)
- Q.24 Write function and material for cylinder block. (CO-1)
- Q.25 Name the parts attached with crankshaft. (CO-2)
- Q.27 Write necessity of cooling system. (CO-3)

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