

Q.22 Write the function of piston rings, connecting rod and flywheel of Engine. (CO5)

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SECTION-D

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

Q.23 What is the difference between Battery ignition and magneto ignition system? Explain in detail. (CO4)

Q.24 Explain difference between 2-stroke and 4-stroke engines? Explain in detail. (CO1)

Q.25 Write a short note on
a) IC Engine testing .
b) Heat balance sheet of IC Engine. (CO2)

4th Sem / Automobile

Subject : Auto Engine - I

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

Q.1 The purpose of a Thermostat in an engine cooling system is to (CO1)

- a) Prevent the coolant from boiling
- b) Allow the engine to warm up quick
- c) Pressurize the system to raise the boiling point
- d) Indicate to the driver, the coolant temperature

Q.2 Which of the following does not relate to spark ignition Engine ? (CO1)

- a) Ignition coil b) Spark plug
- c) Fuel Injector d) Carburetor

Q.3 The pressure at the end of compression, in Petrol Engines, Is approximately (CO2)

- a) 10 bar b) 20 bar
- c) 25 bar d) 35 bar

- Q.4 Which are the most important requirements of an automobile carburetor. (CO3)
- ensuring full torque at low speeds
 - good fuel economy
 - absence of racing of the engine under idling conditions
 - all of the mentioned
- Q.5 The _____ Engines can work on very lean mixture of fuel (Co4)
- Spark ignition
 - Compression ignition
 - Both a and b
 - None of these
- Q.6 In a four stroke cycle Engine, the sequence of operations is (CO4)
- Expansion, compression, suction and exhaust
 - Compression, Expansion, suction and exhaust
 - Suction, compression, Expansion and exhaust
 - Suction, expansion, compression and exhaust

SECTION-B

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

- Q.7 Full form of MPFI is _____ (CO1)
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- Q.8 What is function of Anti-freeze solution? (CO2)
- Q.9 What is function of Carburetor? (CO3)
- Q.10 Explain frictional Power. (CO1)
- Q.11 What is function of Additives for lubricants? (CO3)
- Q.12 What is Air cleaner in Engine? (Co4)

SECTION-C

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

- Q.13 What is function of fuel filter and Fuel tank in IC Engine? (CO3)
- Q.14 Write a short note on Contact breaker and gap in IC Engine. (CO4)
- Q.15 Write a short note on Air cooling of Engines. (CO3)
- Q.16 Write are advantages and disadvantages of MPFI. (CO3)
- Q.17 What is Stroke, Swept volume clearance volume and compression ratio in IC Engine. (CO1)
- Q.18 What are various fuel feed systems in Engine. (CO3)
- Q.19 Write a short note on Necessity of Lubrication system in Engine. (CO5)
- Q.20 What is simple carburetor? Write functions and limitations of simple carburetor. (CO2)
- Q.21 Write Working of pulse generator. (CO3)