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220344

4th Sem.
Branch : Automobile
Sub. : Auto Engine-I

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 _____ Lubrication technique is used for lubrication of the cylinder of a scooter Engine. (CO3)
a) Mist b) Splash
c) Gravity feed d) Forced feed
- Q.2 In a four stroke cycle Diesel engine, the exhaust valve (CO2)
a) Opens at 30° before bottom dead centre and closes at 10° after top dead centre
b) Opens at 30° after bottom dead centre and closes at 10° before top dead centre
c) Opens at bottom dead centre and closes at top dead centre
d) May open and close anywhere
- Q.3 The pressure at the end of compression, in Diesel Engines, is approximately (CO4)
a) 10 bar b) 20 bar
c) 25 bar d) 35 bar

- Q.4 The thermodynamic cycle on which Diesel Engine works is
 (CO3)
- a) Otto cycle
 - b) Diesel cycle
 - c) Dual cycle
 - d) Rankine cycle
- Q.5. A spark plug gap is kept from _____ (CO4)
- a) 0.3 to 0.7 mm
 - b) 0.2 to 0.8 mm
 - c) 0.4 to 0.9 mm
 - d) 0.6 to 1.0 mm
- Q.6 The ignition timing is affected by _____. (CO3)
- a) engine speed
 - b) mixture strength
 - c) compression ratio
 - d) all of the above

SECTION-B

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

- Q.7 What is function of fuel filter in IC Engine? (CO3)
- Q.8 What is full form of CNG. (CO1)
- Q.9 Write types of Air cleaners use in Engine. (CO3)
- Q.10 What is function of Carburator in IC Engine? (CO4)
- Q.11 Define TDC and BDC. (CO1)
- Q.12 Write one property of Lubricant use in Engine. (CO3)

SECTION-C

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

- Q.13 Write a short note on Lubrication system of Engines. (CO5)

- Q.14 What is the difference between Air Cooling and Water cooling of Engine. (CO2)
- Q.15 What is the function of radiator, thermostat, temp, gauge and water jackets. (CO4)
- Q.16 What are various types of fuel feed systems in SI Engine? (CO2)
- Q.17 Write a short note testing of I.C. Engines. (CO3)
- Q.18 Write a short note on Battery ignition system for IC Engine. (CO2)
- Q.19 Explain working of four stroke petrol Engine. (CO1)
- Q.20 Write the function of crankshaft, valves, flywheel and dampers in Engine. (CO1)
- Q.21 Explain Morse test of IC Engine. (CO4)
- Q.22 Describe valve timing diagram of SI Engines. (CO2)

SECTION-D

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

- Q.23 Write classification of Engines. Write the difference between 2-Stroke and 4 stroke Engines. (CO1)
- Q.24 What is MPFI system in Engine? Write in detail description and working of MPFI system. (CO4)
- Q.25 Write a short note on
- 1) Governing of Engines.
 - 2) Compression test of Engine.