

- Q.29 Analyze the effect of compression ratio on petrol and diesel engine? (CO-4)
- Q.30 List any five component of ignition system and mention their uses? (CO-3)
- Q.31 Analyze need of electronic ignition system? (CO-4)
- Q.32 Differentiate between dry and wet sump lubrication system? (CO-2)
- Q.33 Define B.H.P., I.H.P. And FHP? (CO-1)
- Q.34 What do you understand by positive crankcase Ventilation? (CO-2)
- Q.35 Analyse any five defects and their remedies in lubrication system? (CO-4)

SECTION-D

Note : Long Answer type question. Attempt any two questions. (2x10=20)

- Q.36 Analyze the advantages and disadvantages of four stroke over two stroke engine? (CO-4)
- Q.37 Describe the working of water cooling system, also examine use of it? (CO-3)
- Q.38 Outline the properties of coolants (any Five).

b)

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4th Sem, Branch : Automobile Engineering Subject : Auto Engine-I

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1 Total volume of engine is measured by dimension of _____.
 a) Engine Piston b) Water Jacket
 c) Piston Ring d) Engine Cylinder
- Q.2 Two general types of tyres are
 a) Split and combined b) Air and pneumatic
 c) Solid and Hollow d) Radial and cross ply
- Q.3 The motion of the crank is transferred to the piston through _____.
 a) Crank shaft b) Connecting rod
 c) Rocker arm d) Push rod
- Q.4 The power actually developed reach the engine crank shaft is called as _____.
 a) BHP b) IHP
 c) FHP d) CHP
- Q.5 If the air-fuel mixture in a spark ignition engine is too lean, then air-fuel ratio is about _____.
 a) 15:1 b) 10:1
 c) 25:1 d) 18:1

- Q.6 Deisel the knock easily is called _____.
 a) Low cetane b) Medium octance
 c) High cetane d) Nil cetane
- Q.7 If the engine coolant leaks, then engine will get _____.
 a) Cool b) Hot
 c) Black d) None of these
- Q.8 In a two stroke engine for each crankshaft revolution, the camshaft revolves _____.
 a) One rotation b) Half rotation
 c) Two rotation d) Four rotation
- Q.9 The torque available at the contact between clutch and flywheel is known as _____.
 a) Friction b) Tractive effort
 c) Clutch effort d) None of these
- Q.10 In Petrol engines, during suction stroke, _____ is drawn in the cylinder.
 a) Air b) Air + Fuel
 c) Oil d) Air + Oil

SECTION-B

- Note: Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 The propeller is located between the transmission and the _____.
- Q.12 The second stoke of four stroke engine is known as _____.
- Q.13 The octane number of a petrol fuel is a measure of _____.

- Q.14 Write function of Pistion ring?
 Q.15 What is the function of camshaft?
 Q.16 Define I.H.P.?
 Q.17 To part of an engine is called _____.
 Q.18 What is the full form of MEP?
 Q.19 What is the function of condenser in ignition system?
 Q.20 What indicates the quality of petrol fuel?

SECTION-C

- Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Differentiate between internal combustion engine and external combustion engine Give five differences only? (CO-2)
- Q.22 Calculate compression ratio if Swept volume is 2500 cm³ and clearance volume is 200 cm³?
- Q.23 What are the advantages of Carburetion system over MPFI system, write any five? (CO-4)
- Q.24 Analyze the use of any five lubrication system? (CO-4)
- Q.25 What is the importance of air fuel ratio in petrol engine? (CO-3)
- Q.26 What do you understand by vaccum test and compression test? (CO-2)
- Q.27 Differentiate between Distributor less and Electronic ignition system? (CO-2)
- Q.28 What is the function of radiator and how it works? (CO-3)