

SECTION-D

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

- Q.23 Explain the various types of drives used in automobiles .
Give their advantages and disadvantages also. (CO5)
- Q.24 With the help of neat sketches, explain any ten types
of mandatory /cautionary/ informatory signs. (CO5)
- Q.25 Explain the major components of an IC engine.
(CO3)

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Roll No.

1st Sem. / Automobile

Subject : Basics of Automobile Engineering

Time : 3 Hrs.

M.M. : 60

SECTION-A

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

- Q.1 What is an Automobile ? (CO1)
- a) Self-propelled vehicle
 - b) Used for carrying passenger and goods on the ground
 - c) Contains the power source for its propulsion
 - d) All of these
- Q.2 Which of the following fuels cannot be used in automobiles (CO2)
- a) Kerosene
 - b) Diesel
 - c) Gasoline
 - d) Coal
- Q.3 The axle that transmits power is called (CO3)
- a) Live axle
 - b) Dead axle
 - c) Double axle
 - d) Main axle

- Q.4 Universal joint is used to connect two shafts that are _____ to each other. (CO4)
- a) Inclined at an angle b) Parallel
- c) perpendicular d) In straight line
- Q.5 The type of glass used in front windshield is known as _____. (CO3)
- a) Tempered glass b) Laminated glass
- c) Clear Glass d) Plain Glass
- Q.6 In 4-cylinder Compression-ignition engines you find _____. (CO4)
- a) 2 spark plugs b) 4 spark plugs
- c) 4 fuel injectors d) 3 fuel injectors

SECTION-B

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

- Q.7 The full form of IC Engine is _____. (CO4)
- Q.8 We should always overtake a vehicle from _____ side of it. (CO5)
- Q.9 The inner diameter of cylinder known as _____. (CO4)
- Q.10 Full form of SUV is _____. (CO1)

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- Q.11 Define Chassis. (CO1)
- Q.12 Write full form of HMV & LMV. (CO5)

SECTION-C

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

- Q.13 Write five applications of Automobile. (CO5)
- Q.14 Enumerate the functions of electrical system of a vehicle. (CO2)
- Q.15 Classify automobile bodies. (CO1)
- Q.16 Draw a line diagram of a four stroke IC engine and name the four strokes. (CO4)
- Q.17 With the help of a sketch, explain traffic light system. (CO5)
- Q.18 Write the need of vehicle safety system. (CO3)
- Q.19 Write the material and function of piston. (CO3)
- Q.20 Describe the layout of two-wheeler. (CO1)
- Q.21 Describe concept of clearance volume, swept volume and compression ratio. (CO4)
- Q.22 Differentiate between integral and semi integral frame. (CO1)

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