

SECTION-D

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

Q.23 Explain in detail the major components of the engine and their functions. (CO4)

Q.24 Give detailed classification of Automobiles. (CO1)

Q.25 Evaluate the role of vehicle and road safety systems in reducing accidents and fatalities. (CO5)

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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 Two example of Light Motor Vehicle are (CO1)

- a) Bus and Truck b) Car and van
- c) Van and Bus d) Bus and Truck

Q.2 In four wheel drive there is (CO2)

- a) No live Axle b) Two live Axle
- c) one live Axle d) one dead Axle

Q.3 Coupe car has _____ Number of rows of seats (CO3)

- a) One b) two
- c) three d) four

Q.4 Spark is given at the end of _____ in 4 stroke petrol engine (CO4)

- a) Suction stroke b) Exhaust stroke
- c) Expansion stroke d) Compression stroke

Q.5 Airbag contains the following chemical (CO5)

- a) sodium bicarbonate b) sodium nitrate
c) sodium chloride d) sodium azide

Q.6 What is the shape of cautionary road sign (CO5)

- a) Triangular b) Circular
c) Rectangular d) Octagon

SECTION-B

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

Q.7 The connecting rod is connected with the crankshaft with the help of _____ Pin. (CO4)

Q.8 Train is not an automobile. (True / False) (CO1)

Q.9 Give one example of hatchback Car. (CO3)

Q.10 Stroke is the distance between the top dead centre and _____ (CO4)

Q.11 Write full form of MPV. (CO1)

Q.12 Define Chassis. (CO3)

SECTION-C

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

Q.13 Classify the Automobile based on the side of the drive. (CO2)

Q.14 Sketch a layout of four four - wheelers. (CO1)

Q.15 Describe any two types of car bodies. (CO3)

Q.16 Explain piston rings. (CO4)

Q.17 Explain various types of passive safety systems. (CO5)

Q.18 Enlist any five traffic rules and regulations. (CO5)

Q.19 Compare internal combustion engine and external combustion engine. (CO4)

Q.20 Compare semi-integral and integral frame. (CO3)

Q.21 Explain various interior fittings of a car. (CO3)

Q.22 Explain the two-stroke diesel engine. (CO4)