

Q.22 Explain various types of cars and buses manufactures in India. (CO-2)

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Section-D

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

Q.23 Draw a layout of automobile chassis and labels its different components. (CO-3)

Q.24 Explain the working principle of four stroke S.I. engine with the help of neat sketch. (CO-4)

Q.25 Explain different types of drives in automobile in detail. (CO-2)

1st Sem./ NEP

Branch : Automobile Engineering

Sub : 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. (CO-2)
- a) Self propelled vehicle
 - b) Used for carrying passengers and goods on the ground
 - c) Contain the power source for its propulsion
 - d) All of the above

Q.2 Which of the following parts does not include an automobile chassis. (CO-3)

- a) Differential
- b) Brakes
- c) Steering system
- d) Shock absorber

Q.3 Piston pin is also known as _____. (CO-4)

- a) Gudgeon pin
- b) Crank pin
- c) Screw pin
- d) None of the mentioned

- Q.4 The function of a piston is _____. (CO-4)
a) It forms a movable wall of combustion chamber.
b) It transmits turning force to the crankshaft via connecting rod.
c) It functions like crosshead and transmits side thrusts.
d) All of the mentioned

- Q.5 Which of the following type of load is supported by an automobile frame? (CO-3)
a) Torque from engine and transmission
b) Sudden impacts from collisions.
c) Weight of the body, passengers and cargo loads
d) All of the mentioned

- Q.6 How always the warning signs are (CO-5)
a) In a circle
b) In a triangle
c) In a hexagon
d) In a square

Section-B

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

- Q.7 Write the full form of C.I. engine. (CO-4)
Q.8 Gudgeon Pin is also known as crank pin. (True/False) (CO-4)

- Q.9 Use of _____ in four wheelers and _____ for two wheelers has been brought under law. (CO-5)
Q.10 A chassis includes doors and all seats of the vehicle. (True/False) (CO-3)
Q.11 Front wheel drive vehicle provides under steer during turning. (True/False). (CO-1)
Q.12 Mandatory signs are exhibited in _____ shape. (CO-5)

Section-C

Note: Short answer type Question. Attempt any Eight questions out of Ten Questions. (8x4=32)

- Q.13 Define automobile and name its different components. (CO-2)
Q.14 Draw the power flow diagram is four wheel drive. (CO-1)
Q.15 Explain various type of safety devices. (CO-5)
Q.16 Explain any six parts of an I.C. engine. (CO-4)
Q.17 What are the type of road signal? (CO-5)
Q.18 Define automobile body? Explain its different types. (CO-1)
Q.19 What are the advantages of front engine rear wheel drive. (CO-1)
Q.20 Why is streamlined body important? (CO-3)
Q.21 Write the applications of I.C. engines. (CO-4)