

Q.24 Explain construction & working of constant mesh gear box. (CO4)

Q25 Explain construction & working of differential with diagram. (CO2)

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Roll No.

4th Sem. / Automobile Engineering
Subject : Chassis , Body & Transmission-1

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Objective type Questions. All Questions are compulsory. (6x1=6)

Q.1 What are air dams? (CO1)

- a) Spoilers at the front of a vehicle
- b) Spoilers at the rear of a vehicle
- c) Spoilers at the side of a vehicle
- d) Spoilers at the top of a vehicle

Q.2 Full form of VIN number is - (CO2)

- a) Vehicle Integrity number
- b) Vehicle information number
- c) Both A & B
- d) None of the above

Q.3 The power train transmits power from engine to the (CO3)

- a) Crank shaft
- b) Rear wheels
- c) Front wheels
- d) Steering gear

Q.4 The central portion of the wheel is called- (CO3)

- a) Rim b) Scale
- c) Hub d) Axle

Q.5 Why bumpers are used in cars? (CO4)

- a) To reduce the impact in case of low speed collisions
- b) To improve the aerodynamics of a car
- c) To increase the engine performance
- d) None of above

Q.6 Unit of power is - (CO5)

- a) Watt b) Watt/Hour
- c) Newton d) None of above

Section-B

Note: Very short answer type questions. All questions are compulsory. (6x1=6)

Q.7 Define frame. (CO2)

Q.8 The type of rear axle used in trucks are _____. (CO4)

Q.9 Transfer box is in _____ vehicles. (CO3)

Q.10 Define engine. (CO1)

Q.11 Write down different types of clutches. (CO2)

Q.12 What do you mean by camber? (CO7)

Section-C

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

Q.13 Define the principle of steering. (CO7)

Q.14 Define constant mesh gear box. (CO3)

Q.15 Write down about the necessity of automobiles. (CO1)

Q.16 Explain (a) wet clutch (b) Dry clutch. (CO2)

Q.17 Write down the faults & their causes in transmission. (CO4)

Q.18 Explain epicyclic gear box with diagram. (CO4)

Q.19 Explain - (a) Cornering force (b) self righting torque. (CO6)

Q.20 Explain the working of synchromesh gear box in brief. (CO4)

Q.21 Write down the working of Hotchkiss drive. (CO5)

Q.22 Write down construction & working of synchromesh gear box. (CO4)

Section-D

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

Q.23 Explain common faults, their causes & remedies in steering system. (CO1)