

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

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220345

Roll No.

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

**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)