

- Q.25 Write down the faults & their causes in transmission. (CO-4)

Q.26 Explain epicyclic gear box with diagram. (CO-4)

Q.27 Write down about friction lining materials in brief. (CO-3)

Q.28 Write down about the necessity of automobiles. (CO-1)

Q.29 Explain the working of synchromesh gear box in brief. (CO-4)

Q.30 Write down the working of Hotchkiss drive. (CO-5)

Q.31 Write down construction & working of transfer gear box. (CO-4)

Q.32 Explain Ackerman's steering mechanism. (CO-7)

Q.33 Explain - (a) Cornering force (b) self righting torque. (CO-5)

Q.34 Explain - (a) Wet clutch (b) Dry clutch. (CO-2)

Q.35 Define steering system linkages in brief (CO-7)

SECTION-D

Note: Long Answer type question. Attempt any two questions. (2x10=20)

- Q.36 Explain common faults, their causes & remedies in steering system. (CO-7)

Q.37 Explain construction & working of sliding mesh gear box. (CO-4)

Q.38 Explain construction & working of multiple clutch with diagram. (CO-2)

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4th Sem, Branch : Automobile Engineering

Subject : Chassis, Body & Transmission-1

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory. (10x1=10)

- Q.1 Which of the following is not a part of transmission system. (CO-2)

 - a) Clutch
 - b) Axles
 - c) Wheels
 - d) Gear Box

Q.2 What are air dams? (CO-1)

 - 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.3 In the transmission the reverse idler gear always mesh with. (CO-3)

 - a) Counter shaft drive gear
 - b) Counter shaft low gear
 - c) Main shaft reverse gear
 - d) Counter shaft reverse gear

Q.4 Full form of VIN number is- (CO-2)

 - a) Vehicle integrity number

- b) Vehicle information number
c) Both A & B
d) None of the above
- Q.5** Why bumpers are used in cars? (CO-4)
 a) To reduce the impact in case of low speed Collisions.
 b) To improve the aerodynamic of a car
 c) To increase the engine performance
 d) None of above
- Q.6** The friction disc is positioned between the flywheel & the- (CO-2)
 a) Engine b) Crankshaft
 c) Pressure Plate d) None of above
- Q.7** The power train transmits power from engine to the (CO-3)
 a) Crank shaft b) Rear wheels
 c) Front wheels d) Steering gear
- Q.8** If two meshing gears have 4.1 gear ratio & the smaller gear has 12 teeth, the large gear will have (CO-3)
 a) 12 teeth b) 24 teeth
 c) 36 teeth d) 48 teeth
- Q.9** Unit of power to - (CO-1)
 a) Watt b) Watt/hour
 c) Newton d) None of above
- Q.10** The central portion of the wheel is called. (CO-3)
 a) Rim b) Scale
 c) Hub d) Axle

SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Clutch is located between ____ and _____. (CO-2)
 Q.12 The type of rear axle used in trucks are _____. (CO-4)
 Q.13 Transfer box is in ____ vehicles. (CO-3)
 Q.14 Steering system converts __ motion into ___. (CO-7)
 Q.15 Define frame. (CO-2)
 Q.16 Define chassis. (CO-2)
 Q.17 What do you mean by camber? (CO-7)
 Q.18 Define engine. (CO-1)
 Q.19 What is the function of clutch? (CO-3)
 Q.20 Write down different types of clutches. (CO-3)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain about leading manufactures of automobiles in India. (CO-1)
 Q.22 Define constant mesh gear box. (CO-3)
 Q.23 What is the principle of steering? (CO-7)
 Q.24 Explain necessity of slip joint. (CO-4)