

- Q25 Write down classification of vehicles.

Q.26 What are different type of stub axle, explain any one of them.

Q.27 Enlist four motorcycle and four car manufacturing companies in India.

Q.28 Explain Ackerman steering mechanism.

Q.29 Write down construction and working of transfer gear box.

Q.30 Explain epicycle gear box with diagram.

Q.31 Discusses common fault of transmission.

Q.32 Write a short note on power steering.

Q.33 Discusses universal joint and its application in automobile.

Q.34 Explain body upholstery.

Q.35 Draw a neat diagram f transmission system.

No. of Printed Pages : 4 180343/170343/120343/030343
Roll No.

4th Sem. Branch: Auto.
Sub : Chassis, Body & Transmission-I

Time : 3 Hrs. M.M. : 100

SECTION-A

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

- Q.1 What is an Automobiles?

 - a) Self-propelled vehicle
 - b) Used for carrying passengers and goods on the ground
 - c) Contains the power source for its propulsion
 - d) All of the mentioned

Q.2 Which of the following is not a part of the transmission system?

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

Q.3 What is an IC engine?

 - a) The fuel is ignited and burned inside the engine
 - b) The fuel is burned inside a combustion chamber
 - c) The fuel is ignited inside a combustion chamber
 - d) None of the above

Q.4 If the front of the front wheels is inside and rear of front wheels are apart when the vehicle is at rest, then the configuration is called?

- a) Toe-in
- b) Toe-out
- c) Positive camber
- d) Positive castor

Q.5 Which of the following is the disadvantage of the open differential?

- a) High in cost
- b) Not reliable
- c) Complex design
- d) Sends most of the power to the wheel having less traction

Q.6 Which types of gears are used in constant mesh gearbox?

- a) Spur gear
- b) Helical gear
- c) Bevel gear
- d) Worm gear

Q.7 The following is not a Friction clutch

- a) Fluid clutch
- b) Centrifugal clutch
- c) Cone clutch
- d) Disc Clutch

Q.8 Which of the following is not a part of differential assembly?

- a) Crown wheel
- b) Sun gear
- c) Pinion
- d) Universal joint

Q.9 Which factor does not affect the torque transmission by clutch?

- a) Size of clutch plate
- b) Co-efficient of friction
- c) Number of clutch plates used
- d) Axial load on the clutch

Q.10 Rotary motion of the steering is converted to a reciprocating motion by

- a) Track arm
- b) Track rod
- c) Stub axle
- d) Steering box

Section-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Presently _____ types of gear box is used in manual transmission cars.

Q.12 Transfer box is necessary in _____.

Q.13 Explain camber.

Q.14 Define frame.

Q.15 Write two different types of clutches.

Q.16 VIN stands for.

Q.17 Define steering ratio.

Q.18 Explain Hotchkiss drive.

Q.19 Give the function of lining material.

Q.20 Centrifugal clutch is also known as _____.

Section-C

Note: Short answer type Question. Attempt any twelve questions out of fifteen Questions. (12x5=60)

Q.21 Define constant mesh gear box.

Q.22 Explain torque tube drive.

Q.23 Draw conventional type of chassis frame.

Q.24 Why wheel alignment is necessary and what is its procedure.