

Roll no. _____

ID: 180343/170343/120343/030343

Semester: 4th

Branch: Auto

Subject Name: Chassis, Body and Transmission - I

Time Allowed : 3 Hrs.

MM:100

Section -A

Note: Multiple Choice questions. All questions are compulsory.

10x1=10

- Q.1 HMV stands as _____ vehicles. (CO-02)
 (a) Hot motor (b) High motor (c) Heavy motor (d) none of these.
- Q.2 Internal combustion engine was developed in _____ year. (CO-02)
 (a) 1880 (b) 1881 (c) 1882 (d) none of these
- Q.3 Axles are supported on _____. (CO-05)
 (a) Epi- axle (b) wheel (c) frame (d) none of these.
- Q.4 Axles carries the _____ of the automobile. (CO-04)
 (a) chassis (b) body (c) load (d) all of these.
- Q.5 Braking system of vehicle controls _____. (CO-09)
 (a) speed (b) velocity (c) momentum (d) all of these
- Q.6 Clutch transmit _____ motion of one shaft to another shaft. (CO-06)
 (a) translatory (b) rotary (c) both of these (d) none of these
- Q.7 Fluid flywheel works on the principle of _____ action. (CO-07)
 (a) centrifugal (b) centripetal (c) both of these (d) none of these
- Q.8 Camber is the tilt of the wheel at the top from the _____ position. (CO-09)
 (a) vertical (b) horizontal (c) both a & b (d) none of these
- Q.9 In single plate clutch gear shifting is _____. (CO-06)
 (a) easier (b) difficult (c) hard (d) none of these.
- Q.10 The automobile's electrical system contains the following_____. (CO-01)
 (a) Battery (b) Alternators (c) Lighting system (d) a, b & c

Section-B

Note: Objective type questions. All questions are compulsory.

10x1=10

- Q.11 Write the main components of an automobile. (CO-02)
- Q.12 Name various types of car body. (CO-02)
- Q.13 Write the reason for providing bumper in cars. (CO-02)
- Q.14 What is clutch lining. (CO-03)
- Q.15 Classify clutch linkages. (CO-03)
- Q.16 Write the cause of slipping in torque convertor. (CO-06)
- Q.17 Write the purpose of overdrive. (CO-07)
- Q.18 Name various types of rear axle. (CO-08)
- Q.19 What is propeller shaft? (CO-08)
- Q.20 Write the need of steering. (CO-09)

Section -C

Note: Short answer type Questions. Attempt any twelve questions out of fifteen questions.

12x5=60

- Q.21 Classify automobiles on the basis of capacity. (CO-01)
- Q.22 What are the functions of a chassis frame? (CO-02)
- Q.23 Explain body dressing. (CO-02)
- Q.24 Give a neat diagram of a single plate clutch. (CO-03)
- Q.25 Write the objective of a clutch. (CO-03)
- Q.26 Classify transmission. (CO-04)
- Q.27 How does a transfer box work? (CO-05)
- Q.28 Explain semi-floating axle with neat sketch. (CO-07)

- Q.29 Write the functions of rear axle. (CO-07)
Q.30 Draw a neat sketch of front axle and explain its construction. (CO-08)
Q.31 Explain the principle of steering. (CO-09)
Q.32 What is wheel alignment? How it is done? (CO-10)
Q.33 Explain Davis steering mechanism. (CO-09)
Q.34 Explain the cause of excessive tyre wear. (CO-10)
Q.35 Write the causes of Oil leak at axle ends. (CO-08)

Section-D

Note: Long answer type questions. Attempt any two questions out of three questions.
2x10=20

- Q.36 Explain the various components of an automobile. (CO-01)
Q.37 Explain the construction and working of semi centrifugal clutch. (CO-03)
Q.38 Explain the construction and working of Electronic power steering system. (CO-09)