

No. of Printed Pages : 4

Roll No.

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4th Sem / Branch : Automobile Engineering
Subject:- Chassis Body And Transmission-I

Time : 3Hrs.

M.M. : 100

SECTION-A

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

Q.1 Which one of the following is not a part of the chassis. (CO2)
a) Wheels b) Rear axle
c) Front axle d) Seats

Q.2 The purpose of gear box in an automobile is to (CO5)
a) Vary torque
b) vary speed
c) permanent seed reduction
d) None of these

Q.3 Which one of the following is mounted between the engine and gear box. (CO5)
a) Propeller shaft b) Reduction fan
c) Clutch d) Differential gear

Q.4 Which one of the following is not a part of transmission system. (CO3)
a) Clutch b) Axle
c) Propeller shaft d) Differential

Q.5 The function of steering system is to (CO9)

- a) to stop vehicle
- b) vehicle direction control
- c) all of these
- d) none of these

Q.6 Clutch transmit _____ motion of shaft to another shaft. (CO6)

- a) Translatory b) Rotary
- c) Both of these d) None of these

Q.7 Fluid flywheel works on the principle of _____ action. (CO7)

- 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 (CO6)

- a) Vertical b) Horizontal
- c) Both a & b d) None of these

Q.9 In single plate clutch gear shifting is _____. (CO9)

- a) Easier b) Difficult
- c) Hard d) None of these

Q.10 The automobile's electrical system contains the following _____. (CO1)

- a) Battery b) Alternators
- c) Lighting system d) a, b & c

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SECTION-B

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

- Q.11 Define automobile. (CO1)
Q.12 Write the function of seat belt. (CO2)
Q.13 Write the materials used for the construction of Chassis frame. (CO2)
Q.14 What is the friction clutch? (CO3)
Q.15 Classify clutch linkages. (CO3)
Q.16 What is tractive effort? (CO5)
Q.17 Where is the transfer box used? (CO6)
Q.18 Write the function of a universal joint. (CO5)
Q.19 Name any two rear axle drives. (CO8)
Q.20 Write the function of front axle. (CO8)

SECTION-C

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

- Q.21 Write the requirements of a frame. (CO2)
Q.22 Describe various types of glasses used for the car body. (CO2)
Q.23 Write the causes of pulsation of clutch pedal & clutch pedal stiffness. (CO3)
Q.24 How does cone clutch work? (CO3)
Q.25 How does a semi-centrifugal clutch work? (CO3)
Q.26 Write the causes of gear & Hard gear shifting. (CO4)
Q.27 How does a freewheel unit work? (CO4)

- Q.28 How does a selector mechanism work? (CO5)
Q.29 Write the causes of shake in propeller shaft and its remedies. (CO6)
Q.30 Explain semi-floating axle with neat sketch. (CO8)
Q.31 Explain torque tube drive with neat sketch. (CO5)
Q.32 Write the causes of tyre wear and vehicle wanders. (CO10)
Q.33 Write the causes of vehicle pulls to one side and write its remedies. (CO9)
Q.34 Describe toe-in and toe-out. (CO7)
Q.35 Explain over steer and under steer. (CO9)

SECTION-D

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

- Q.36 Explain the construction and working of centrifugal clutch. (CO3)
Q.37 Explain the function, principle, construction and working of differential. (CO4)
Q.38 Describe various components of a steering system with the help of a neat diagram. (CO9)

Note: Course Outcome (CO) mentioned in the question paper is for official purpose only.