

Q.30 Explain continuously variable transmission.
(CO-4)

Q.31 Discuss front axle with diagram. (CO-7)

Q.32 Why is the requirement of steering system?
(CO-9)

SECTION-D

Note: Long answer type questions. Attempt any three questions out of four questions. (3x10=30)

Q.33 Draw neat sketch of a modern automobile chassis and explain the function of each unit.
(CO-2)

Q.34 Explain with neat sketch multiplate clutch. (CO-3)

Q.35 Explain construction and working of a constant mesh gearbox. (CO-4)

Q.36 Explain construction and working of a Hydraulic power steering. (CO-9)

No. of Printed Pages : 4

Roll No. 170343/120343/03043

4th Sem. / Automobile Engg.

Subject : Chassis, Body and Transmission - I

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

(Course Outcome/CO)

Q.1 What do you understand by chassis? (CO-2)

Q.2 What is the function of a clutch. (CO-2)

Q.3 Write full form of VIN _____. (CO-3)

Q.4 Function of transmission is _____. (CO-4)

Q.5 Full form of AMT used in transmission. (CO-4)

Q.6 _____ is used here two shafts are connected at an angle to transmit torque. (CO-5)

Q.7 What are types of axles. (CO-8)

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- Q.8 The caster angle in modern vehicles ranges from_____degrees. (CO-9)
- Q.9 What is the function of steering in motor vehicle? (CO-9)
- Q.10 What is the function of axle breather? (CO-8)

SECTION-B

Note:Very Short answer type questions. Attempt any ten questions out of twelve questions(10x2=20)

- Q.11 Classify types of automobiles. (CO-1)
- Q.12 Write the name of material of vehicle chassis. (CO-2)
- Q.13 Define two clutch faults. (CO-3)
- Q.14 Write the reason of lubrication in gear box. (CO-5)
- Q.15 Define fluid drive. (CO-7)
- Q.16 What is freewheel. (CO-7)
- Q.17 The function of slip joint is_____. (CO-7)
- Q.18 Define oil retainer. (CO-6)

- Q.19 Write name of two types of stub axle. (CO-8)
- Q.20 Define steering ratio. (CO-9)
- Q.21 What is camber? (CO-10)
- Q.22 Write advantage of centrifugal clutch. (CO-3)

SECTION-C

Note:Short answer type questions. Attempt any eight questions out of ten questions. (8x5=40)

- Q.23 Enlist leading manufactures of automobiles in India. (CO-1)
- Q.24 What type of components are mounted on chassis frame?. (CO-2)
- Q.25 Explain single plate clutch. (CO-3)
- Q.26 Write four causes of gear noise and their remedies. (CO-5)
- Q.27 Explain synchromesh gearbox. (CO-4)
- Q.28 Explain constructional details of propeller shaft (CO-6)
- Q.29 Explain Hotchkiss drive. (CO-7)

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