

- Q.26 Compare tube tyre and tubeless tyre. (CO-3)
 Q.27 Explain the bleeding of hydraulic brakes. (CO-7)
 Q.28 Write the causes and remedies of Excessive Pedal travel in vacuum brakes. (CO-8)
 Q.29 Why brakes fail to release in Air Hydraulic brakes and write its remedies. (CO-8)
 Q.30 Give the construction of vacuum brakes. (CO-6)
 Q.31 Explain the drum brakes with neat sketch. (CO-6)
 Q.32 What do you understand about active safety. (CO-9)
 Q.33 Give a note on rear camera view. (CO-9)
 Q.34 Write the features of wind shield. (CO-9)
 Q.35 Write the causes of Sagging spring in and write its remedies. (CO-2)

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 a telescopic shock absorber. (CO-1)
 Q.37 What are the factors affecting tyre wear or tyre life? (CO-3)
 Q.38 Explain the construction and working of disc brakes. (CO-7)

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

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5th Sem / Branch : Automobile Engineering Sub. : Chassis Body & Transmission - II

Time : 3Hrs. M.M. : 100

SECTION-A

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

- Q.1 Suspension spring absorbs _____. (CO-3)
 a) Road shocks
 b) Vehicle shocks
 c) Passenger weight shocks
 d) None of these
 Q.2 Leaf spring has _____ shape. (CO-3)
 a) Circular b) Elliptical
 c) Rectangular d) All of these
 Q.3 Wire wheel has _____ main parts. (CO-3)
 a) Two b) Three
 c) Four d) None of these
 Q.4 _____ wheel is used in sports car. (CO-3)
 a) Pressed steel disc b) Wire
 c) Disc d) None of these

- Q.5 Anti lock braking system prevents the wheel from _____.
 (CO-8)
- a) Locking b) Skidding
 c) All of these d) None of these
- Q.6 Electronic Vehicle stability reduces the loss of _____.
 (CO-8)
- a) Locking b) Skidding
 c) All of these d) None of these
- Q.7 The following is the Passive safety system in a vehicle.
 (CO-8)
- a) Air bag b) Anti lock braking
 c) Smart cruise control d) None of these
- Q.8 The tandem master cylinder has _____ piston.
 (CO-5)
- a) One b) Two
 c) Three d) None
- Q.9 The disc brake pads made up of _____ friction material.
 (CO-5)
- a) Low b) Medium
 c) High d) None of these
- Q.10 The air bags were introduced in the year _____.
 (CO-9)
- a) 1989 b) 1990
 c) 1991 d) 1992

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SECTION-B

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Write the principle of shock absorber. (CO-1)
 Q.12 Define interleaf friction. (CO-1)
 Q.13 Define Tyre wear. (CO-3)
 Q.14 Write two brake lining material. (CO-5)
 Q.15 What is rim bruise? (CO-6)
 Q.16 Define Pascal's law. (CO-6)
 Q.17 What is brake binding? (CO-7)
 Q.18 What is Yaw. (CO-9)
 Q.19 Write the speed rating codes. (CO-9)
 Q.20 Write any two active safety systems. (CO-9)

SECTION-C

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Give the principle and function of shock absorber. (CO-1)
 Q.22 Explain the Wishbone arm suspension system. (CO-1)
 Q.23 Write note on Air spring. (CO-1)
 Q.24 Explain tyre rotation. (CO-4)
 Q.25 What are the effects of unbalanced wheels? (CO-4)

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