

- 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 vaccum 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 vaccum 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.

No. of Printed Pages : 4  
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#### 5th Sem / Branch : Automobile Engineering Sub. : Chasis 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)
- Road shocks
  - Vehicle shocks
  - Passenger weight shocks
  - None of these
- Q.2 Leaf spring has \_\_\_\_\_ shape. (CO-3)
- Circular
  - Elliptical
  - Rectangular
  - All of these
- Q.3 Wire wheel has \_\_\_\_\_ main parts. (CO-3)
- Two
  - Three
  - Four
  - None of these
- Q.4 \_\_\_\_\_ wheel is used in sports car. (CO-3)
- Pressed steel disc
  - Wire
  - Disc
  - 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

## 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)