

- Q.26 What are the effects of unbalanced wheels? (CO-5)
- Q.27 Explain the bleeding of hydraulic brakes. (CO-7)
- Q.28 What are the causes of non working in Power brakes and write its remedies. (CO-8)
- Q.29 Write the causes and remedies of Brake Pedal travel decrease in Hydraulic brakes. (CO-8)
- Q.30 Give the advantages and disadvantages of hydraulic brake system. (CO-6)
- Q.31 Explain the disc brakes. (CO-6)
- Q.32 Write the features incorporated for vehicle safety. (CO-9)
- Q.33 Give a note on rear camera view. (CO-9)
- Q.34 Explain about cruise control. (CO-9)
- Q.35 Write the causes of Rough ride 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 Mac Pherson independent suspension system. (CO-1)
- Q.37 Explain the principle, construction and working of hydraulic brakes. (CO-6)
- Q.38 Explain the construction and working of Air Bags. (CO-9)

No. of Printed Pages : 4

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### 5th Sem / Branch : Automobile Engg. Sub.: Chasis Body & Transmission - II

Time : 3Hrs.

M.M. : 100

### SECTION-A

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

- Q.1 Air spring consists of \_\_\_\_\_ with compressed air. (CO-2)
- a) Rubber bag                      b) Beans bag
- c) Jute bag                         d) None of these
- Q.2 Shock absorber works on the principle of \_\_\_\_\_ friction. (CO-2)
- a) Fluid                                b) solid
- c) air                                    d) all of these
- Q.3 A tandem master cylinder has-
- a) One piston                        b) Two Piston
- c) Three Piston                      d) No Piston
- Q.4 Tread wear indicator is located-
- a) On the tyre, where the tread meets the side wall
- b) On the dashboard of vehicle
- c) At the wheel alignment shops
- d) On the front bumper of vehicle.

- Q.5 Tyre rotation is carried out for \_\_\_\_\_
- Reconditioning of a damage tyre
  - Equalizing the wear of all the tyres in a vehicles
  - Free movement of tyres
  - Removing impurities from tyre
- Q.6 What are the material used for springs
- Chrome vanadium steel
  - Silicon manganese steel
  - Carbon Steel
  - All of those
- Q.7 Tyre 145/70, R 12 designation of the tyre means
- Rim diameter is 70 mm
  - Rim diameter is 12 inches
  - Rim diameter is 12 mm
  - Rim diameter is 145 mm
- Q.8 In air hydraulic brakes \_\_\_\_\_ pressure is converted into hydraulic pressure.
- Liquid
  - Air
  - Both
  - None of these
- Q.9 The following is a type of a leaf springs
- Full elliptic
  - Semi elliptic
  - Quarter elliptic
  - All of these
- Q.10 Wheel specification told us about
- Width of Rim
  - Type of Rim
  - Diameter of Rim
  - All of these

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## SECTION-B

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

- Q.11 Write the function of helper spring. (CO-2)
- Q.12 Define sprung weight. (CO-1)
- Q.13 Classify tyres. (CO-3)
- Q.14 Function of tyre is \_\_\_\_\_. (CO-3)
- Q.15 Write about leading shoes in brakes. (CO-6)
- Q.16 Write the purpose of brake. (CO-6)
- Q.17 What do you mean by tyre wear. (CO-6)
- Q.18 Why Brake grabbing occurs? (CO-7)
- Q.19 Why front wheel tramp occurs? (CO-8)
- Q.20 Write down the material used for brake shoe. (CO-9)

## SECTION-C

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

- Q.21 What are the advantages of Independent suspension system. (CO-1)
- Q.22 Explain the helper spring with the help of diagram. (CO-1)
- Q.23 Write note on stabilizer bar. (CO-1)
- Q.24 Explain a tyre rim with the help of sketches. (CO-3)
- Q.25 Write the steps to be taken for tyre care and maintenance. (CO-4)

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