

- Q.30 Write down the working of wheel cylinder. (CO6)
- Q.31 Explain the concept of anti lock braking system. (CO9)
- Q.32 Describe the concept of wheel balancing. (CO4)
- Q.33 Write the purpose of helper spring and variable rate spring. (CO1)
- Q.34 Enlist any four factors considered for preventive design. (CO9)
- Q.35 Write down the advantages of independent suspension system. (CO1)

### Section-D

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

- Q.36 Explain the principal, construction & working of telescopic shock absorber. (CO1)
- Q.37 Explain the working of air braking system in brief. (CO6)
- Q.38 Explain in brief-tube tyre and tubeless tyre. Also write advantages of tubeless tyre over tube tyre (radial tyre) (CO3)

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**5th Sem./ Auto**  
**Subject : Chassis, Body & Transmission - II**

Time : 3 Hrs. M.M. : 100

### SECTION-A

**Note: Multiple type Questions. All Questions are compulsory. (10x1=10)**

- Q.1 The portion of wheel, on which tyre is fitted, is called (CO2)
- a) Rim b) Shim
  - c) Flast base rim d) Split rim
- Q.2 In a car independent suspension system following type of spring is used (CO1)
- a) Leaf spring b) Coil spring
  - c) Torsion bar d) Helper spring
- Q.3 The term bleeding is used in \_\_\_\_\_ brakes. (CO7)
- a) Hydraulic b) Mechanical
  - c) Vacuum d) Pneumatic
- Q.4 An overinflated tyre will wear the tread most near the - (CO4)
- a) Edges b) Corners
  - c) Centre d) None the above

- Q.5 In the air brake system, the valve which regulates the line air pressure is called \_\_\_\_\_. (CO6)  
 a) Brake valve      b) Delivery valve  
 c) Thermostat valve      d) Un loader valve
- Q.6 Number of chambers in Tandom Master cylinder is/are (CO6)  
 a) 1      b) 3  
 c) 2      d) 4
- Q.7 'SR' speed rating is upto \_\_\_\_\_ kmph- (CO3)  
 a) 180 kmp/h      b) 250 kmp/h  
 c) 100 kmp/h      d) 400 kmp/h
- Q.8 The air hydraulic brake is termed as (CO6)  
 a) Power Brake      b) Hydraulic Brake  
 c) Disc Brake      d) Mechanical Brake
- Q.9 An examples of passive safety system is :- (CO9)  
 a) ABS      b) EBD  
 c) Air Bag      d) Night vision system
- Q.10 Beads of tyre are made of \_\_\_\_\_ wires. (CO1)  
 a) Steel      b) Iron  
 c) Alloy      d) All of these

### Section-B

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

- Q.11 Define brake lining. (CO6)
- Q.12 Write down the material used for spring. (CO1)

- Q.13 Write the function of stabilizer bar. (CO1)
- Q.14 Define aspect ratio of tyre. (CO3)
- Q.15 Define spring - rate. (CO4)
- Q.16 Write down the material used for brake shoe. (CO3)
- Q.17 Write the effect of wheel alignment on tyre life. (CO4)
- Q.18 Define automotive safety. (CO9)
- Q.19 Give the purpose of hand brakes. (CO6)
- Q.20 Write the purpose of seatbelt. (CO9)

### Section-C

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

- Q.21 Explain the principle of operation of pneumatic suspension system. (CO1)
- Q.22 Describe the working of disc brake. (CO6)
- Q.23 Write down the constructional detail of wheel rim. (CO3)
- Q.24 Define drum brakes. (CO1)
- Q.25 Explain about Cruise control. (CO1)
- Q.26 Enlist are the basic parts of air bag and write their function. (CO9)
- Q.27 Explain the working of mechanical braking system. (CO6)
- Q.28 Write any four characteristics of brake fluid. (CO6)
- Q.29 Describe a method of testing of Brakes. (CO6)