

- 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) Flange 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 Tandem 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)