

- 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 180352/170352/
Roll No. 120352/030352

**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.

(660)	(4)	180352/170352/ 120352/030352	(1)	180352/170352/ 120352/030352
-------	-----	---------------------------------	-----	---------------------------------

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

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)

(2)

180352/170352/
120352/030352

(3)

180352/170352/
120352/030352