

- Q.27 Explain anti-lock breaking system. (CO6)  
 Q.28 Write down the requirements of power brakes.(CO6)  
 Q.29 Explain the construction of hand brake and its working. (CO6)  
 Q.30 Write any five faults in braking system and their causes. (CO8)  
 Q.31 Explain the construction of cross-ply tyres. (CO2)  
 Q.32 Explain the principle of hydraulic shock absorber. (CO1)  
 Q.33 Explain the purpose of tyres. (CO1)  
 Q.34 Explain the working of vacuum brakes. (CO6)  
 Q.35 Describe Traction control system. (CO9)

#### **SECTION-D**

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

- Q.36 Illustrate the construction & working of hydraulic brake system. (CO3)  
 Q.37 Explain tube & tubeless tyres with their constructional details. (CO2)  
 Q.38 Enlist the various factors considered designing the vehicle for minimum injury in case of accident. (CO9)

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#### **5th Sem / Auto** **Subject:- Chasis, Body and Transmission- II**

Time : 3Hrs. M.M. : 100

#### **SECTION-A**

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

- Q.1 A tandem master cylinder has- (CO6)  
 a) one piston b) Two pistons  
 c) three pistons d) no pistons  
 Q.2 In the specification of a tyre - 195/55 R 16, R stands for \_\_\_\_\_ (CO3)  
 a) Radius b) Type of r/m  
 c) Type of carcass d) Run flat tyre  
 Q.3 Which of the following is not a power brake:- (CO6)  
 a) Vacuum brake b) Air brake  
 c) Air hydraulic brake d) Hydraulic brake  
 Q.4 Tread wear indicator is located- (CO3)  
 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 \_\_\_\_\_ (CO4)
- Reconditioning of a damaged tyre
  - equalizing the wear of all tyres in a vehicle
  - free movement of tyres
  - removing impurities from tyre
- Q.6 When child lock is on- (CO9)
- the door can be opened from inside
  - the door can be opened from outside
  - all the doors will be closed automatically
  - the door can not be opened
- Q.7 Immobilizer system is used for \_\_\_\_\_ (CO9)
- Mobile phones
  - Antitheft device
  - Ignition
  - Air bag working
- Q.8 In vacuum brakes the vacuum is created by: (CO6)
- Pump
  - Intake manifold
  - Exhaust manifold
  - Fuel pump
- Q.9 Excessive tyre wear may be caused due to \_\_\_\_\_ (CO4)
- Over-inflation
  - under-inflation
  - unbalance
  - All of these
- Q.10 The outer portion of tyre made up of synthetic rubber which rolls on road is called- (CO2)
- cushion
  - tread
  - sidewall
  - spokes

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## **SECTION-B**

- Note:** Objective type questions. All questions are compulsory. (10x1=10)
- Q.11 Define un sprung weight. (CO1)
- Q.12 Write the main parts of mechanical brake System. (CO3)
- Q.13 How front end safety is achieved? (CO5)
- Q.14 Define tyre wear? (CO2)
- Q.15 Define brake lining. (CO3)
- Q.16 Define fire fighting. (CO5)
- Q.17 Explain the duties of First Aider? (CO5)
- Q.18 Define wheel assembly. (CO3)
- Q.19 Classify brakes. (CO6)
- Q.20 Write down the form of EVS? (CO9)

## **SECTION-C**

- Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)
- Q.21 Explain pneumatic suspension system. (CO1)
- Q.22 Write down the requirements of wheels. (CO2)
- Q.23 Explain wheel balancing. (CO5)
- Q.24 Describe drum brakes. (CO3)
- Q.25 Explain the principle of braking system. (CO6)
- Q.26 Explain anti-skid devices. (CO6)

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