

## **SECTION-C**

**Note:** Long answer type questions. Attempt any one questions out of two questions. (1x10=10)

- Q.19 Describe Davis steering Mechanism with a neat Diagram. Also write its advantages and disadvantages over Ackerman's Steering Mechanism.
- Q.20 With a neat sketch describe Vacuum brake system. Give its applications advantages and disadvantages.

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**3rd Sem / Branch : DVOC**  
**Sub.: Motor Vehicle Technology II**

Time : 3Hrs.

M.M. : 50

## **SECTION-A**

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

- Q.1 Type of vehicle construction (as of a an automobile) in which the body is integral with the chassis
- a) Monocouple
  - b) Conventional Chassis
  - c) Ladder Frame Chassis
  - d) X-Frame Chassis
- Q.2 Head Restraints are
- a) Automobile Style Feature
  - b) Automobile Safety Feature
  - c) Automobile Performance feature
  - d) None of these
- Q.3 Which of these were or are used in automobiles to provide suspension?
- a) Leaf springs
  - b) Coil springs
  - c) Torsion bars
  - d) All of these

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**Q.4** Name the commonly used Steering mechanism in Automobiles:

- a) Davis Steering Mechanism
- b) Ackerman's Steering System
- c) Both the above
- d) None of these

**Q.5** The springs used in trucks are

- a) Leaf spring              b) Coil spring
- c) Torsion Bar              d) Mc pherson strut

**Q.6** The angle responsible for developing self restoring torque in the steering mechanism

- a) KPI Angle              b) Camber angle
- c) Castor Angle              d) Toe out

**Q.7** Drum brakes are generally used in the \_\_\_\_\_ of cars

- a) Front wheels              b) Rear wheels
- c) Both              d) None of the above

**Q.8** What is the function of Anti-lock brake system ABS?

- a) It reduces the brake pad wear
- b) It reduces the stopping distance
- c) It avoids the skidding of the vehicle
- d) It reduces cost of braking system

**Q.9** Exhaust Gas recirculation in the engines is used to control

- a) Oxides of Nitrogen      b) Particulate Matter
- c) Carbon Dioxide      d) Carbon Monoxide

**Q.10** Latest Pollution Emission Norms for Cars in India

- a) BS-III              b) BS-IV
- c) BS-VI              d) Euro V

## **SECTION-B**

**Note:** Short Answer Questions. Attempt any six questions out of eight questions. (6x5=30)

**Q.11** What is lock to lock angle of the steering? Explain.

**Q.12** Describe the term tuning Radius. Also explain its significance.

**Q.13** Name five types of suspension system in the automobile.

**Q.14** Define and describe the term KPI.

**Q.15** Explain Maruti Steering System.

**Q.16** Explain the effect of weight transfer during Braking.

**Q.17** Describe Brake Defects, their causes and Remedies.

**Q.18** Explain Automobile pollution control by Exhaust gas recirculation.