

22656

22223

3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following. 10**
- a) Name the various component mounted on the chasis frame.
 - b) State the function of propeller shaft.
 - c) Define caster and camber.
 - d) Define sprung weight and unsprung weight.
 - e) State the function of sensor in automobile.
 - f) State the duties and responsibilities of RTO.
 - g) State working principle of clutch.
- 2. Attempt any THREE of the following. 12**
- a) Describe various types of alternative fuels for auto engines.
 - b) Explain the working of constant mesh type gear box with neat sketch.
 - c) Discuss the classification of brakes from different consideration.
 - d) Describe working of mac-pherson strut type of suspension system.

P.T.O.

- 3. Attempt any THREE of the following. 12**
- a) Explain the importance of aerodynamic shape of car body.
 - b) Explain with neat sketch working of power steering.
 - c) Discuss in details various factors affecting tyre life.
 - d) Explain the working of starting system.
- 4. Attempt any THREE of the following. 12**
- a) State any four advantages and disadvantages of electric vehicles.
 - b) Explain working of alternator with neat sketch.
 - c) Draw a neat sketch of traffic sign STOP and NO PARKING.
 - d) Describe briefly various types of electronic ignition system.
 - e) State the factors considered for site selection to set-up your own garage.
- 5. Attempt any TWO of the following. 12**
- a) Explain the working of diaphragm type clutch with neat sketch.
 - b) Describe working of master-cylinder with neat sketch.
 - c) Compare static balancing with dynamic balancing.
- 6. Attempt any TWO of the following. 12**
- a) Explain the working of differential with neat sketch.
 - b) Explain the working of Bendix drive used in starting system.
 - c) Explain the role and responsibilities of service supervisor.
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