

22561

21222

3 Hours / 70 Marks

Seat No.

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15 minutes extra for each hour

- Instructions :**
- (1) All Questions are *compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.

Marks

1. Attempt any FIVE of the following :

10

- (a) Define Aerodynamic drag.
- (b) List the salient features of FRP.
- (c) List the four denting tools.
- (d) State four major body repairs.
- (e) State any four painting defects.
- (f) Give the two security system used in a modern car with their importance.
- (g) State the purpose of crash sensors.

2. Attempt any THREE of the following :

12

- (a) Describe with sketch the constructional details of truck body.
- (b) Describe classification of four wheeler auto bodies according to shape.
- (c) Explain the necessity of streamlining of auto bodies with sketches.
- (d) Describe with sketch the process of wind tunnel test for car.

- 3. Attempt any THREE of the following : 12**
- (a) List the types of glasses used in automobile and explain construction of anyone.
 - (b) Explain impact testing procedure of auto body.
 - (c) State the specification of body shop equipments.
 - (d) State purpose and requirements of auto body.
- 4. Attempt any THREE of the following : 12**
- (a) Explain the body service procedure for interior trim and upholstery.
 - (b) Explain the importance of GPS.
 - (c) Explain the necessity of seat belt and seat belt pretensioner.
 - (d) State the situations to replacement of panels with justification.
 - (e) Explain application of tyre pressure monitoring system with relevant justifications.
- 5. Attempt any TWO of the following : 12**
- (a) Describe body painting procedure of new vehicle.
 - (b) Explain the use of electronic straightening and measuring system in body repair with relevant justification.
 - (c) Describe the body refinishing materials with justification.
- 6. Attempt any TWO of the following : 12**
- (a) Select relevant methods for repair of fiber glass and its replacement with justification.
 - (b) Suggest the relevant preventive treatment for refinishing of the car body with justification.
 - (c) Explain with neat sketch, the working of side air bags.
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