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Register No.:	
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## **April 2019**

Time - Three hours (Maximum Marks: 75)

- [N.B: (1) Q.No. 8 in PART A and Q.No. 16 in PART B are compulsory. Answer any FOUR questions from the remaining in each PART - A and PART - B
  - (2) Answer division (a) or division (b) of each question in PART C.
  - (3) Each question carries 2 marks in PART A, 3 marks in Part B and 10 marks in PART C. J

## PART - A

- 1. How the vehicle bodies are classified?
- 2. What is hatchback?
- 3. How the bus bodies are classified?
- 4. What is articulated bus?
- 5. Name the materials used for manufacturing of seats.
- Define low drag body.
- 7. How will you avoid pitting?
- 8. What is galvanization?

## PART - B.

- Discuss about drivers visibility test.
- 10. List out the general safety measures adopted for passengers safety.
- 11. Describe vacuum coating process.
- 12. What is draw bar trailer?
- 13. Mention the seat angles for driver seat and passengers seat in a commercial vehicle.
- 14. Give any two effects of side winds.
- 15. Explain about any three body repair tools.
- 16. What is the use of luxury coach bus?

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## PART - C

17. (a) (i) Explain crumple zone body design.

(ii) What is saloon? Explain its types with suitable sketches.

(Or)

- (b) Explain airbag with sketches.
- (a) Explain any two classifications of buses and coaches based on body shape.

(Or)

- (b) Explain with a neat sketch about bus body cross section and label the parts and explain the same.
- 19. (a) Briefly explain about the different types of medium commercial vehicle bodies.

(Or)

- (b) With neat sketches briefly explain about passengers push backseat and comfortable seat angle.
- 20. (a) Explain briefly about the effects of various forces on a vehicle.

(Or)

- (b) Explain in detail body optimisation technique for minimum drag.
- 21. (a) Explain the different types of corrosion occurs in \_\_atomotive bodies.

(Or)

(b) Explain any three types of painting methods with neat sketches.

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