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October 2018

<u>Time - Three hours</u> (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.]

PART - A

- 1. What is convertible?
- 2. What is the gas used in air bags?
- 3. What i. ni bus?
- 4. What is the use of tipper body?
- 5. Name the various types of moments.
- 6. What is corrosion resistant?
- 7. What are pick tools?
- 8. What is forward control?

PART - B

- 9. Discuss about drivers visibility test.
- 10. What is the necessity of motor vehicle body?
- 11. Write about articulated vehicle.
- 12. Draw the bus body and name the parts.
- 13. Write about HCV bodies.
- 14. What do you mean by vehicle aerodynamic drag?
- 15. What is the advantages of GRP as body materials?
- 16. Give any three effects of side winds.

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PART - C

17. (a) Explain with the sketches the various types of car bodies and their special features.

(Or)

- (b) Bring out the importance of safety in body design. Explain various safety equipments and methods.
- 18. (a) (i) Explain conventional type bus body construction.
 - (ii) Explain integral type construction with a sketch.

(Or)

- (b) Explain about floor height and different engine location, entrance and exit location in bus body construction.
- 19. (a) Explain the different types of commercial vehicle bodies with sketches.

(Or)

- (b) (i) Explain the tanker body construction with a diagram.
 - (ii) Write about driver cabin design.
- 20. (a) Explain briefly about the effects of various forces and moments on a vehicle.

(Or)

- (b) (i) Explain the method of wind tunnel testing and their types.
 - (ii) Explain about the vehicle aerodynamics and their objectives.
- 21. (a) (i) What do you mean by cathode protection? Explain any one type.
 - (ii) Write the general procedure for installing new rear quarter panel assembly.

(Or)

(b) Explain about the modern painting processes in vehicle bodies.

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