

Register No.:

848

October 2023

Time – Three hours
(Maximum Marks: 100)

- [N.B. 1. Answer all questions under Part-A. Each question carries 3 marks.
2. Answer all the questions either (A) or (B) in Part-B. Each question carries 14 marks.]

PART – A

1. Enlist the various truck manufacturers in India.
2. Write about fastener replacement.
3. Define transformer and classify its types.
4. What are the different types head lamps in a vehicle?
5. Enlist components of clutch.
6. Write the functions of Hydraulic retarders.
7. List the various drive axle failures.
8. What is king pin inclination?
9. Write the functions of suspension system.
10. Write the necessity of ABS in heavy vehicle.

[Turn over.....

PART - B

11. (a) (i) Explain the classifications of trucks based on weight. (7)
(ii) Explain the procedures for handling the power tools. (7)
(Or)
(b) Explain the winterizing process in engine coolant and diesel fuel.
12. (a) Explain any two methods of state of charge test with a neat sketch.
(Or)
(b) Explain the SAE fault code and diagnosing tools.
13. (a) Explain any two clutch linkages with neat sketch.
(Or)
(b) Explain the working of simple planetary gear set with neat sketch.
14. (a) Explain the operation of Tandem Drive Axle system with neat sketch.
(Or)
(b) Explain the working of electronically variable steering system with a neat sketch.
15. (a) Explain the working of tandem axle spring suspension system with a neat sketch.
(Or)
(b) Explain about the types of wheels and tyres.
