

912

Register No.:

April 2024

*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. What is meant by personal protective equipment?
2. List out the classifications of fasteners.
3. What is cold cranking rating of battery?
4. What is flash code?
5. What is climbing?
6. Write the functions of Hydraulic Retarders.
7. List the various drive axle failures.
8. List out the factors affecting camber.
9. Define jounce.
10. Write the necessity of ABS in heavy vehicle.

[Turn over.....

PART – B

11. (a) (i) Explain how to handle hazardous materials in the shop floor. (7)  
(ii) Explain how to handle the fire extinguisher during fire accident. (7)  
(Or)  
(b) Explain about PM trailer inspection procedure.
12. (a) Explain with a neat sketch construction and operation of an alternator.  
(Or)  
(b) Explain the SAE fault code and diagnosing tools.
13. (a) (i) Explain any one method of clutch inspection. (7)  
(ii) Explain the Gear train configuration transmission system. (7)  
(Or)  
(b) (i) Explain hydraulic retarder with a neat sketch. (7)  
(ii) Write the overhauling procedure of transmission system. (7)
14. (a) Explain the operation of Tandem Drive Axle system with a neat sketch.  
(Or)  
(b) Explain the working of electronically variable steering system with a neat sketch.
15. (a) (i) With a neat sketch, explain the cast spoke wheel. (7)  
(ii) Explain the cap air suspension system with a neat sketch. (7)  
(Or)  
(b) Explain the air over hydraulic brake system with a neat sketch.

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