

Register No.:

756

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. What is the function of crankshaft?
2. What are the types of cooling system used in automotive engines?
3. List any three requirements of good fuel.
4. Write the properties of CNG.
5. Write about four wheel drive.
6. What is torque tube drive?
7. State three advantages of tubeless tyre.
8. What are the functions of suspension system?
9. What is meant by battery rating?
10. What are the types of hybrid electric vehicles?

[Turn over.....

PART – B

11. (a) Explain the types of valve mechanism with neat sketches.
(Or)
(b) Explain full pressure lubrication system with a neat sketch.
12. (a) Explain the construction and working of fuel injector with neat sketch.
(Or)
(b) Explain the construction and working of LPG engine with a neat sketch.
13. (a) Explain the construction and working of a synchromesh gear box with a neat sketch.
(Or)
(b) Explain the working of differential with neat sketch.
14. (a) Explain the Ackermann principle of steering with simple line diagram.
(Or)
(b) Explain the working of air assisted hydraulic brake system with neat sketch.
15. (a) Explain with neat sketch, the operation of bendix drive mechanism.
(Or)
(b) Explain the construction and working of electric vehicles with the help of its layout.
