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Register No.:

November 2022

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 air pollution?
2. Mention the advantages of BEV.
3. Mention the parameters to determine the performance of EV.
4. State the use of BLDC motor drive.
5. What is battery back?
6. What is meant by constant current and constant voltage charging?
7. Mention the advantages of EV eco system.
8. Write about the protection against the electric shock.
9. Mention major objectives of Tamil Nadu EV Policy.
10. Write briefly about the recycling eco system of battery.

[Turn over.....

PART - B

11. (a) Explain the parts of drive train system in a conventional vehicle.

(Or)

- (b) Explain the working of Fuel cell electric vehicle with the block diagram.

12. (a) Explain the concept of hybrid electric drive train.

(Or)

- (b) Explain the construction and working of hub motor drive system.

13. (a) Explain the construction and working of lead acid batteries.

(Or)

- (b) Explain the construction and working of any one lithium based batteries.

14. (a) Explain the global scenario of EV adoption.

(Or)

- (b) Explain the trends and future development of EV market.

15. (a) Explain about the electric vehicles in India and FAME India guidelines.

(Or)

- (b) Write short notes (i) Recycling of Battery (ii) Recycling of EVs.
