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Total No. of Questions: 18

Total No. of Pages : 02

B.Voc. (Automobile Servicing) (2019 Batch) (Sem.-1) MODERN ELECTRIC AND HYBRID VEHICLES Subject Code : 5.GV.04

M.Co de : 77016

Time: 3 Hrs.

Max. Marks: 30

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying ONE mark each.
- 2. SECTION-B contains FIVE questions carrying $2^{1}/_{2}$ (Two and Half) marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying FIVE marks each and students have to attempt any TWO questions.

SECTION-A

Answer Briefly :

- 1. Define Generator.
- anker.com What is the function of power converter? 2.
- 3. Define Drive Controllers.
- Draw the diagram of shock absorber. 4.
- 5. What is the most common form of hybrid electric vehicle?
- What are the different types of braking systems used in hybrid vehicles? 6.
- 7. Write two advantages of hybrid electric vehicles for the environment
- 8. What is Train Topology?
- 9. Write one advantage of RBS.
- 10. What is the function of traction motor?

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SECTION-B

- 11. What are the social and environmental importances of hybrid and electric hybrid vehicles? Explain.
- 12. Explain the basic concept of electric and hybrid traction.
- 13. Explain power flow control in electric and hybrid electric vehicles.
- 14. What are the basic requirements for electric motor?
- 15. Why regenerative braking system is required? Explain.

SECTION-C

- 16. Explain in detail regenerative braking system.
- 17. Explain in detail electric and hybrid electric drive trains.
- 18. Explain with diagram the construction and working of shock absorber.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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