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Total No. of Pages : 02

Total No. of Questions : 18

**B.Voc. (Automobile Servicing) (Sem.-1)**  
**AUTOMOBILE ELECTRIC EQUIPMENT**

Subject Code : 5.GV.02

M.Code : 77014

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  $2\frac{1}{2}$  (Two and Half) marks each and students has to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying FIVE marks each and students has to attempt any TWO questions.

**SECTION-A**

**Answer briefly :**

1. Explain the concept of positive and negative earthing in automobile.
2. Explain the significance of fuses in circuits of automobiles.
3. Discuss the function of colour coding of automobile wiring.
4. What are maintenance free batteries?
5. Discuss principle of lead acid cell.
6. What is Dyna-starter?
7. Discuss the principle of commutation.
8. Discuss the working of alternator.
9. What are current and voltage regulator?
10. What is Traction battery?

### **SECTION-B**

11. Discuss the diagram of a typical wiring system for automobile.
12. Write a short note on care and maintenance of automobile batteries.
13. Discuss various regulators for alternators in automobiles.
14. Discuss the advantages of alternators over dynamo.
15. What are fuel cells and discuss its types?

### **SECTION-C**

16. Discuss the difference between constant current and constant voltage system in regulators?
17. Write a short note on alkaline type of batteries?
18. Discuss the concept of specific gravity of electrolyte and also discuss its variation with temperature.

**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.**