Roll No. Total No. of Pages : 02

Total No. of Questions: 09

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

Subject Code: 5.GV.02 M.Code: 77014

Date of Examination: 12-01-2023

Time: 3 Hrs. Max. Marks: 30

INSTRUCTIONS TO CANDIDATES:

- 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 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

1. Answer briefly:

- (a) Discuss the meaning of earth return systems in automobile, wiring system.
- (b) What are the uses of general-purpose cables in automobile wiring system?
- (c) What are battery life enhancers?
- (d) What are VRLA batteries?
- (e) Discuss various ways of battery failures.
- (f) What are alternators and give its advantages over dynamo?
- (g) What do you mean by current and voltage regulators?
- (h) Explain the functions of fuses in circuits.
- (i) Explain the uses of generator drive in dynamo.
- (j) What are alkaline type batteries?

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SECTION-B

- 2. Explain the specifications and colour codes of various cables used in automobile wiring system.
- 3. What are fuel cells? Give their applications and discuss its. Types.
- 4. Discuss with suitable diagram the construction details of Dynamo.
- 5. Explain in brief the principle of generation of A.C with suitable diagram.
- 6. Discuss what do you mean by double-contact and compensated voltage-control regulators.

SECTION-C

- 7. Write a short note on Maintenance-free batteries.
- 8. Write a short note on plastic fibre-optics wires used for automobile wiring system.
- 9. What is electrolyte? Explain the specific gravity of electrolyte and affect of 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.

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