Roll No.						

Total No. of Pages : 02

Total No. of Questions : 09

B.Voc. (AS) (Sem.-4) AUTOMOTIVE REFRIGERATION & AIR-CONDITIONING Subject Code : 6.GV.06 M.Code : 79993 Date of Examination : 22-12-2022

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 TWO & 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

- 1. Write briefly :
 - a) Define Bell Coleman Cycle.
 - b) List the operating parameters for performance of AC system.
 - c) Write about legislation for automotive AC system.
 - d) What is roll of accumulator?
 - e) Illustrate cool-down performance.
 - f) What types of blower fans are used in automotives?
 - g) What is roll of sensors in load calculations?
 - h) Write about sight glass.
 - i) What is system flushing?
 - j) List the air conditioning components.

SECTION-B

- 2. Explain vapour absorption refrigeration system.
- 3. How does refrigerant charge capacity is determined?
- 4. Describe psychometric processes with example.
- 5. Discuss about outside and inside design consideration for load analysis.
- 6. Explain refrigerant safety/handling for automotives.

SECTION-C

7. Discuss in detail about design guidelines of air conditioning system.

8. Write note on:

- a) Illustrate receiver driers and desiccants, and b) Air distribution modes.
- 9. How does load calculation for AC is done for automobiles? Explain with example.

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.