Roll No. Total No. of Pages : 02

Total No. of Questions: 09

B.Voc (Hardware & Networking) (Sem.-5) MICROPROCESSORS AND MICROCONTROLLERS

Subject Code: BVHN-503-18 M.Code: 78634

Date of Examination: 16-12-22

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a) Machine Language
- b) Opcode
- c) RISC
- d) RESET pin
- e) Carry flag
- f) RAM
- g) Operand
- h) T-state
- i) Address Bus
- j) RIM.

1 M-78634 (S2)-628

SECTION-B

- 2. What is subroutine? Explain with help of example.
- 3. Explain the functions of DAD, RAL, JMP, CALL instructions of 8085.
- 4. Differentiate between instruction, machine and clock cycle.
- 5. Write an assembly, language program to swap two numbers.
- 6. What is address mode and effective address? Explain in detail.

SECTION-C

- 7. Draw and explain the timing diagram of OUT instruction.
- 8. Explain how traffic light system can be interfaced with 8085.
- 9. Write a detailed note on DMA controller and its architecture.

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.

2 | M-78634 (S2)-628