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15EC42

Fourth Semester B.E. Degree Examination, July/August 2021
Microprocessor

Time: 3 hrs.

Max. Marks: 80

Note: *Answer any FIVE full questions.*

1 a. With a relevant diagram, explain the register organization of 8086. (08 Marks)
   b. List any three the advantages of memory segmentation. (03 Marks)
   c. The contents of different registers are shown below. Form the effective addresses for the instructions given below. Offset (displacement) = 5000H.
   [AX] = 1000H, [BX] = 2000H, [SI] = 3000H, [DI] = 4000H, [BP] = 5000H, [SP] = 6000H, [CS] = 0000H, [DS] = 1000H, [SS] = 2000H, [IP] = 7000H.
   i) MOV AX, [5000H]
   ii) MOV AX, [BX]
   iii) MOV AX, 5000H[Bx]
   iv) MOV AX, [BX] [SI]
   v) MOV AX, 5000H [BX] [SI]. (05 Marks)

2 a. Explain PUSH AX and POP AX instructions with steps involved. (05 Marks)
   b. Write an 8086 ALP to multiply two 8-bit signed numbers. Give example for different cases. (06 Marks)
   c. If the machine code for OPCODE MOV is 100010, find the hex codes for,
   i) MOV AX, BX
   ii) MOV AX, [BX] (05 Marks)

3 a. Explain different string handling instructions. (05 Marks)
   b. Write an 8086 ALP for the addition of two 3 × 3 matrices shown below. The matrices are stored in the form of lists (row wise). Store the result of addition in the third list.

$$MAT1 = \begin{bmatrix} 01H & 02H & 03H \\ 04H & 05H & 06H \\ 07H & 08H & 09H \end{bmatrix} \quad MAT2 = \begin{bmatrix} 11H & 22H & 33H \\ 44H & 55H & 66H \\ 77H & 88H & 99H \end{bmatrix}$$ (05 Marks)

   c. Explain the following instructions with example
   i) AAA   ii) SAR   iii) NEG. (06 Marks)

4 a. Explain the following assembler directives with example.
   i) ORG   ii) PTR   iii) PROC. (06 Marks)
   b. Write an 8086 ALP to convert an 8 bit binary number into equivalent BCD code. (05 Marks)
   c. If [CL] = 36, find the contents of register BL after execution of following set of instructions
```
        MOV BL, 1
        MOV AL, 0
UP :    CMP CL, 0
        JZ END
        SUB CL, BL
        INC AL
        ADD BL, 02
        JMP UP
END : MOV BL, AL
```
(05 Marks)

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Table of Contents Microprocessor Question Paper Vtu

1. Understanding the eBook Microprocessor Question Paper Vtu
    - The Rise of Digital Reading Microprocessor Question Paper Vtu
    - Advantages of eBooks Over Traditional Books
2. Identifying Microprocessor Question Paper Vtu
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Microprocessor Question Paper Vtu
    - User-Friendly Interface
4. Exploring eBook Recommendations from Microprocessor Question Paper Vtu
    - Personalized Recommendations
    - Microprocessor Question Paper Vtu User Reviews and Ratings
    - Microprocessor Question Paper Vtu and Bestseller Lists
5. Accessing Microprocessor Question Paper Vtu Free and Paid eBooks
    - Microprocessor Question Paper Vtu Public Domain eBooks
    - Microprocessor Question Paper Vtu eBook Subscription Services
    - Microprocessor Question Paper Vtu Budget-Friendly Options
6. Navigating Microprocessor Question Paper Vtu eBook Formats

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