

CBGS SCHEME

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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
- With a relevant diagram, explain the register organization of 8086. (08 Marks)
 - List any three the advantages of memory segmentation. (03 Marks)
 - 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.
 - MOV AX, [5000H]
 - MOV AX, [BX]
 - MOV AX, 5000H[BX]
 - MOV AX, [BX][SI]
 - MOV AX, 5000H [BX] [SI]. (05 Marks)
- 2
- Explain PUSH AX and POP AX instructions with steps involved. (05 Marks)
 - Write an 8086 ALP to multiply two 8 bit signed numbers. Give example for different cases. (06 Marks)
 - If the machine code for OPCODE MOV is 100010, find the hex codes for,
 - MOV AX, BX
 - MOV AX, [BX] (05 Marks)
- 3
- Explain different string handling instructions. (05 Marks)
 - 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.
$$\text{MAT1} = \begin{bmatrix} 01\text{H} & 02\text{H} & 03\text{H} \\ 04\text{H} & 05\text{H} & 06\text{H} \\ 07\text{H} & 08\text{H} & 09\text{H} \end{bmatrix} \quad \text{MAT2} = \begin{bmatrix} 11\text{H} & 22\text{H} & 33\text{H} \\ 44\text{H} & 55\text{H} & 66\text{H} \\ 77\text{H} & 88\text{H} & 99\text{H} \end{bmatrix}$$
 (05 Marks)
 - Explain the following instructions with example
 - AAA
 - SAR
 - NEG. (06 Marks)
- 4
- Explain the following assembler directives with example.
 - ORG
 - PTR
 - PROC. (06 Marks)
 - Write an 8086 ALP to convert an 8 bit binary number into equivalent ECD code. (05 Marks)
 - If [CL] = 56, 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)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and/or equations written eg. 42+4=80, will be treated as malpractice.

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Microprocessor and Microcontroller Saurabh Chaudhury, Risha Mal, 2025-06-01 The Drifting Stones Anis Bari, Nilay Bipul, 2023-02-09 Anis Bari is the author of two acclaimed books *Dreams of The Mango People* an inspirational book on how ordinary people choose to become extra ordinary and a monograph *Decoding Startups* which has notes on startups along with useful entrepreneurial frameworks He has received many awards including the most promising entrepreneur of the year award by TiE The Indus Entrepreneur and has been a winner of the European Union Business Challenge Born in Patna Bihar Anis went on to study engineering from PES Institute of Technology Bangalore and an MBA from the Asian Institute of Management Founded by Harvard Business School Ford Foundation Manila He is an International Rated Chess Player and a Global Shaper Alumni of the World Economic Forum Currently he is a Mason Fellow at Harvard Kennedy School

Advanced Microprocessor & Microcontrollers S. K. Venkata Ram, 2004 **MECHATRONICS & MICROPROCESSORS: AS PER REVISED VTU SYLLABUS** G.K. Vijayaraghavan K.P. Ramachandran, M.S. Balasundaram, 2009-05-01

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