

1

Correction in Microprocessor

Q.P. Code: 10082319

Note to be included

N.B.:1) Answer any four questions

2) Assume suitable data wherever required

3) Draw diagrams wherever required

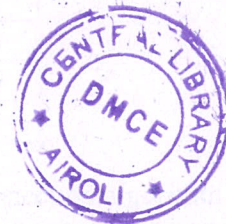
2025-05-23 14:35:49 (sagardadmin)



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[Max Marks:80]

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|-----|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| Q.1 | (a) | Design 8086 microprocessor-based on following Specifications:
1. MP 8086 working at 8MHz minimum mode.
2. 64 KB EPROM using 32 KB Devices
3. 64 KB SRAM using 16KB device | 10 |
| | (b) | Explain Addressing modes of 8086 microprocessor. Explain Programming Model of 8086. | 10 |
| Q.2 | (a) | Explain the Initialization command words (ICWs) and Operational command words(OCWs) of the 8259 PIC. | 10 |
| | (b) | Explain the interrupt structure of the 8086 processor(IVT) and differentiate between Hardware and Software interrupts | 10 |
| Q.3 | (a) | Comparison 80386 ,Pentium 1 ,Pentium 2 and Pentium 3 Processor | 10 |
| | (b) | Write an assembly language program for searching a Character in a Given String.(Consider your own String) and Explain the following instructions: LODSB, NOP,,RCR,CLR related to 8086. | 10 |
| Q.4 | (a) | List the features of Pentium 4 processor. Explain Net burst microarchitecture. | 10 |
| | (b) | Explain MESI Protocol | 10 |
| Q.5 | (a) | Draw and explain architecture of 8086. | 10 |
| | (b) | Differentiate between real Mode , Virtual Mode and Protected Mode of 80386 Processor .Explain the Floating point Pipeline of Pentium Processor | 10 |
| Q.6 | (a) | Explain Modes of 8259. | 10 |
| | (b) | Write an ALP for 8086 to transfer the block of data. | 10 |



prog code
1T00734