

3470
BOARD DIPLOMA EXAMINATION, (C-09)
JUNE - 2019
DIPLOMA IN ELECTRONICS & COMMUNICATION ENGINEERING
MICROPROCESSORS
FOURTH SEMESTER EXAMINATION

Time: 3 Hours**Total Marks: 80**

PART - A (10 x 3 = 30 Marks)

Note 1: Answer all questions and each question carries 3 marks

2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. Define micro & macro operation.
2. Define opcode and operand.
3. List the general purpose registers of 8086 and state their use.
4. State need for Interrupt.
5. Write any three differences between 8 bit and 16 bit microprocessors.
6. Describe any three string manipulation instruction of 8086.
7. Explain the CALL instruction.
8. Describe any three assembler directives.
9. List any six features of Pentium processor.
10. Write any three features of CISC processors.

PART - B (5 x 10 = 50 Marks)

Note 1: Answer any five questions and each question carries 10 marks

2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. Explain virtual memory organization.
12. a) Draw the block diagram of digital computer and briefly explain function of each block.
b) Draw the block diagram of accumulator based CPU.
- * 13. Draw the Pin Configuration of IC 8086 and Explain each pin. (5+5)
14. Write the features of 8086 and draw the internal architecture of 8086 microprocessor.
15. Write an assembly language program to find the smallest of 'N' 8-bit numbers stored at SOURCE. Store the at smallest number at RESULT.
16. List the addressing modes of 8086 and explain them with examples.
17. Explain pipelining and instruction level parallelism.
18. Explain the architecture of 80286 with neat diagram.

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