

C09-EC-404

3470

BOARD DIPLOMA EXAMINATION, (C-09) MARCH/APRIL—2016 DECE—FOURTH SEMESTER EXAMINATION

MICROPROCESSORS

Time: 3 hours [Total Marks: 80

PART—A

 $3 \times 10 = 30$

Instructions: (1) Answer all questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.
- 1. State memory hierarchy in a digital computer.
- 2. Define opcode and operand.
- **3.** List the types of interrupts of 8086.
- **4.** Write any six features of Intel 8086 microprocessor.
- **5.** Write the importance of instruction pointer and stack pointer.
- **6.** List any three control transfer (branch) instructions of 8086.
- 7. List any three logic instructions of 8086.
- **8.** Write an assembly language program to perform 2's complement of an 8-bit number stored in the 1100H. Store the result in the location 1101H.

9.	List	any	six	features	of	80386.
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10.	Write	anv	three	differences	between	80386	and	80486.
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		PART—B 10×5=	50						
Inst	ruci	tions: (1) Answer any five questions.							
		(2) Each question carries ten marks.							
		(3) Answers should be comprehensive and the criteri for valuation is the content but not the length of t answer.							
11.	(a)	Draw the block diagram of digital computer and briefly explain the function of each block.	6						
	(b)	Draw the block diagram of accumulator-based CPU.	4						
12.	(a)	Explain the fixed point and floating point representations with examples and compare them.	7						
	(b)	Define micro and macro operations.	3						
13.	(a)	Write any five differences between 8-bit and 16-bit microprocessors.	5						
	(b)	Explain the concept of pipeline processing.	5						
14.	Des	Describe the maximum and minimum mode of operation of 8086.							
15.	Exp	plain the addressing modes of 8086 with examples.							
16.	(a)	Describe any five assembler directives.	5						
	(b)	List any two assembly language development tools and describe them.	5						
17.	Exp	plain the architecture of 80486 with neat diagram.							
18.	Ex	plain the architecture of 80286 with neat diagram.							

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