

C09-EC-404

3470

BOARD DIPLOMA EXAMINATION, (C-09) MARCH/APRIL—2017 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. Define opcode and operand.
- 2. Define macrooperation and macrooperation.
- **3.** Write any six features of Intel 8086 microprocessor.
- **4.** Write the need for interrupts in microprocessors.
- **5.** List the general purpose registers of 8086 and state their uses.
- **6.** List the addressing modes of 8086.
- **7.** List any six logic instructions of 8086.

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10.	List any six features of 80286.	
	PART—B 10×5=	50
Inst	ructions: (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) Explain associative memory.(b) State memory hierarchy.	6 4
12.	Draw the block diagram of accumulator-based CPU and explain the function of each unit.	
13.	(a) Write any five differences between 8-bit and 16-bit microprocessors.(b) Explain the concept of parallel processing.	5 5
14.	Describe the maximum and minimum modes of operation of 8086.	
15.	(a) Describe any five assembler directives.(b) List any two assembly language development tools and describe them.	5 5
16.	Write an assembly language program to find the largest of 'N' 8-bit numbers and stored from SOURCE. Store the largest number at RESULT.	
17.	Explain the architecture of 80486 with neat diagram.	
18.	Explain the architecture of 80386 with neat diagram.	

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9. Write any three differences between 80486 and Pentium.

8. Explain the call instruction.