

C09-EC-404

3470

BOARD DIPLOMA EXAMINATION, (C-09) OCT/NOV-2017 DECE-FOURTH SEMESTER EXAMINATION

MICROPROCESSORS

Time	e: 3 hours]	[Total Marks : 80
	PART—A	3×10=30
Inst	ructions: (1) Answer all questions.	
	(2) Each question carries three mar	ks.
	(3) Answers should be brief and sta and shall not exceed <i>five</i> simple	0 1
1.	What is an instruction format?	3
2.	Mention the fixed and floating point way of representation of numbers. $1\frac{1}{2}+1\frac{1}{2}$	
3.	State the need of memory segmentation.	3
4.	State the features of Intel 8086 microprocesso	ors. 3
5.	Mention the use of general purpose registers is	in 8086.
6.	List any three control transfer (branching) instru	actions of 8086.
7.	Illustrate the procedure CALL, RETURN a passing.	and parameter 1+1+1
/347	70	[Contd

٥.	List any three processor control instructions of 8086.	3	
9.	Mention the concept of pipelining.	3	
10.	State the features of 80286 microprocessor.	3	
	PART—B	0×5=50	
Instructions: (1) Answer any five questions.			
	(2) Each question carries ten marks.		
	(3) Answers should be comprehensive and the c for valuation is the content but not the let the answer.		
11.	Draw the block diagram of accumulator based CPU and expl the function of each unit.	lain 4+6	
12.	Explain zero address, one address, two address and the address instructions with examples.	ree 10	
13.	Explain the concepts of sequential processing, para processing and pipelining	allel 3+3+4	
14.	(a) Explain the instruction queue and its storage.	5	
	(b) Explain the need for calculation of physical address.	5	
15.	List the data transfer instructions of 8086 and explain a three.	any 4+6	
16.	Explain the concepts of IF-THEN, IF-THEN-ELSE, multi- IF-THEN-ELSE and REPEAT-UNTIL with programs. 2	iple +3+2+3	
17 .	Describe the architecture of 80486.	10	
18.	Describe and compare RISC and CISC.	5+5	
