

C09-EC-404

3470

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

MICROPROCESSORS

Time: 3 hours]			[Tota	ıl Marks : 80
	PART—A	5		3×10=30
Instructions: (1) Answe	er all questions	S.		
(2) Each	question carrie	es three m	arks.	
	ers should be hall not exceed		_	-
1. What is an instruct	ion format?			3
2. Mention the fixed a numbers.	nd floating poi	int way of	represer	ntation of 1½+1½
3. State the need of n	nemory segmen	itation.		3
4. State the features of	of Intel 8086 m	nicroproces	sors.	3
5. Mention the use of	general purpo	se registers	s in 808	6. 3
6. List any three contro	ol transfer (brar	nching) inst	ructions	of 8086. 3
7. Illustrate the propassing.	cedure CALL,	RETURN	and p	arameter 1+1+1
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* 8.	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 10×5=50	О
Inst	ructions: (1) Answer any five questions.	
	(2) Each question carries ten marks.	
	(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.	
11.	Draw the block diagram of accumulator based CPU and explain the function of each unit.	б
12.	Explain zero address, one address, two address and three address instructions with examples.	О
13.	Explain the concepts of sequential processing, parallel processing and pipelining 3+3+4	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 any three.	б
16.	Explain the concepts of IF-THEN, IF-THEN-ELSE, multiple IF-THEN-ELSE and REPEAT-UNTIL with programs. 2+3+2+3	3
17.	Describe the architecture of 80486.	Э
18.	Describe and compare RISC and CISC. 5+5	5

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