PART - B

(1) Answer any FIVE questions,

(2) Each question carries TEN marks,

Answer should be comprehensive and criterion for

10/5=50

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C16/C16S-CM/IT-304

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BOARD DIPLOMA EXAMINATION, (C-16 / C-16S)

MARCH / APRIL - 2019

DCME - III SEMESTER EXAMINATION COMPUTER ORGANIZATION

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[Total Marks: 80

PART - A

3×10=30

Impractions :

- (I) Answer ALL questions.
- Each question carries THREE marks.
- (3) Answer should be brief and straight to the point.

Define the terms (a) fetch cycle (b) execute cycle.

Define (a) opcode (b) Address.

Write about fixed point representation of numbers.

Write short notes on zero address instruction.

Write about immediate addressing mode.

Write any three advantages of cache memory.

Write the need for an interface.

Write about DMA data transfer.

What is a bus system and list the different bus system.

10 Define vector processing.

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Instructions :

	valuation is the content but not the length of answer,	of the
		xplain
(a)	Explain (i) Micro operation and (ii) Macro operation /	5
(b)	Explain direct and indirect addressing modes	5
Ехр	plain fixed point multiplication with a flowchart.	
Exp	lain floating point addition and subtraction with a flowch	art.
Ezp)	lain memory hierarchy in a computer.	/
Wri	te short notes on the following:	
(a)	Programmed I/O method of data transfer	5
(b)	Interrupt initiated I/O method of data transfer.	5
Ехр	lain synchronous and asynchronous data transfer.	
(a)	Explain memory interleaving in a computer.	5
(b)	List any five advantages of parallel processing and	5
	pipeline processing.	J. Salar
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	Exp. Exp. Wri (a) (b) Exp. (a) (b) Exp.	Draw the block diagram of simple accumulator based CPU and e the function of each unit. (a) Explain (i) Micro operation and (ii) Macro operation (b) Explain direct and indirect addressing modes. Explain fixed point multiplication with a flowchart. Explain floating point addition and subtraction with a flowchart. Explain memory hierarchy in a computer. Write short notes on the following: (a) Programmed I/O method of data transfer (b) Interrupt initiated I/O method of data transfer. Explain synchronous and asynchronous data transfer. (a) Explain memory interleaving in a computer. (b) List any five advantages of parallel processing and

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