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BOARD DIPLOMA EXAMINATION, (C-09) OCT/NOV-2015

DECE—FOURTH SEMESTER EXAMINATION

MICROPROCESSORS

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=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. What is the need of memory interleaving?
- 2. Define micro and macro operation.
- **3.** Explain the instruction queue 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 data transfer instructions of 8086.
- 7. List any three assembly language development tools.
- 8. List any three assembler directives.

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- 9. Write any three features of RISC processors.
- 10. List any six features of 80286.

Instructions : (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.** (a) Draw the block diagram of digital computer and briefly explain function of each block.
 - (b) Draw the block diagram of accumulator-based CPU.
- **12.** Explain zero-address, one-address, two-address and three-address instructions with one example each.

13.	(a)	Explain the generation of 20-bit physical address in 8086	
		with an example.	6
	(b)	What is interrupt? Explain interrupt response of 8086.	4
14.	(a)	Explain the flags of 8086.	6
	(b)	Explain the concept of parallel processing.	4

- **15.** List the addressing modes of 8086 and explain them with examples.
- Write an assembly language program to move a block of 'N' 8-bit number at location SOURCE to another memory area starting at DEST.
- **17.** Explain pipelining and instruction level parallelism.
- **18.** Write any five differences among 80286, 80386, 80486 and Pentium.

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