

**B.Tech. – VIEP – COMPUTER SCIENCE AND
ENGINEERING (BTCSVI)**

Term-End Examination

00933

June, 2018

BICS-012 : MICROPROCESSORS

Time : 3 hours

Maximum Marks : 70

Note : Attempt any **seven** questions. All questions carry equal marks.

1. (a) Explain code segment and data segment in 8086 microprocessor briefly. 5
(b) Compare and contrast direct and indirect addressing modes. 5
2. Explain the role of CPU and functional parts in execution unit and bus interface unit. 10
3. (a) Explain data transfer instructions. 5
(b) Explain arithmetic instructions briefly. 5
4. What is a program ? Write an assembly language program on standard coding form to multiply two 16-bit binary numbers to give a 32-bit binary result. 10

5. What are the types of interrupts ? Explain all of them briefly. 10
6. (a) What is the algorithm for the interrupt procedure ? 5
- (b) Discuss about vector interrupt table briefly. 5
7. What is DMA ? Explain the functioning of a typical DMA controller with the help of a block diagram. 10
8. Explain 8259A priority interrupt controller with the help of a block diagram. 10
9. Draw the block diagram and explain about 80286 processor briefly. 10
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