

Code No: 153AH**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech II Year I Semester Examinations, October - 2020****COMPUTER ORGANIZATION AND MICROPROCESSOR****(Information Technology)****Time: 2 hours****Max. Marks: 75****Answer any five questions****All questions carry equal marks**

1. Explain various phases of instruction cycle with an example. [15]
2. Explain the addressing modes of 8086 microprocessor each with an example. [15]
3. Write an assembly language program to generate fabonacci series up to a given number. [15]
- 4.a) Draw and explain the division of floating point numbers.
b) Explain subtraction of binary numbers in one's complement notation with examples. [7+8]
- 5.a) Discuss about Pipelining. Explain briefly about Vector Processing.
b) Explain about special processor activities. [8+7]
6. Explain different functional units of a digital computer with neat sketch. [15]
7. What is register transfer language? Explain the basic symbols used in register transfer. [15]
8. Explain the interrupt response sequence of 8086 Microprocessor. [15]

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