

Code No: 153AH**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B.Tech II Year I Semester Examinations, September - 2021****COMPUTER ORGANIZATION AND MICROPROCESSOR****(Information Technology)****Time: 3 hours****Max. Marks: 75****Answer any five questions****All questions carry equal marks**

1. Describe basic operational concepts of computer in detail. Draw the block diagram of digital computer. [15]
2. Explain the execution of all instructions of 8086 with suitable examples. [15]
3. Explain the different types of interrupts of 8086 processor. [15]
4. Explain IOP mode of data transfer. [15]
- 5.a) With a neat diagram, explain the instruction pipeline processing in RISC architecture.
b) What is associate memory? Explain with block diagram. [8+7]
6. Discuss various generations of computer with the technological features and devices that characterized each generation. [15]
- 7.a) Explain the maximum and minimum mode operation of 8086.
b) Write short note on Assembler directives and operators. [9+6]
8. Draw and explain the micro-programmed control unit. [15]

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