R09 Code No: 58014 JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2016 COMPUTER SYSTEM ORGANIZATION (Electrical and Electronics Engineering) **Time: 3 Hours** Max. Marks: 75 **Answer any Five Questions** All Questions Carry Equal Marks Explain different types of computers and Bus structure. b). ...Find 2's complement of (i) 0000 (ii) 1101 (iii) 0011 c). Perform (i):1100-0101 (ii) 0111-1010 2. What is micro operation? Explain 4-bit Arithmetic circuit with example. 3.a) Explain stack organization. b). ...Discuss about RISC processors... [7+8] .... What is micro programmed control? Explain. 4. [15] 5. What is virtual memory? Explain. [15] 6.a) Explain about the need for DMA. b) Discuss about priority interrupt. What is pipelining? Explain its advantages and disadvantages and write about 7. array processors. [15] 8.a) ::::Write difference between multiprocessors and multi computers: :::: b) · · · Explain about inter-processor communication and. Synchronization in multiprocessor systems. [7+8]--ooOoo-