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SALE A

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, May - 2015 COMPUTER ORGANIZATION

(Computer Science and Engineering)

Time: 3 Hours

Max. Marks: 75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit.

Each question carries 10 marks and may have a, b, c as sub questions.

PART- A

(25 Marks) Compare RISC and CISC architecture? 1.á) [2M] Give an example to explain three address instruction formats. b) [3M] c) What is strobe signal? [2M] Why does the DMA having priority over CPU when both requests for memory **d**) transfer? [3M] Give the basic structure of cache and what is its use. e) [2M] With a neat diagram explain memory connection to CPU. f) [3M] State and explain any two addressing modes of 8086. g) [2M] With a neat sketch explain the concept of a pipeline? h) [3M] Give examples to explain call instructions in 8086. i) [2M] Briefly discuss about unconditional branch statements. j) [3M]PART-B (50 Marks) Write in detail about various types of instructions? Give examples for each one. 2. [10] 3.a) Discuss about status bits in program control register. Explain in detail about conditional branch instructions. [5+5]With a neat diagram explain the architecture of 8089 I/O processor. [10] With a neat block diagram show the DMA transfer in a computer system. [10] 5. What do you mean by virtual memory? Discuss frow paging helps in **6.** implementing virtual memory. 7. Describe in detail about working of associative memory. [10]With a neat architectural diagram explain the functioning 8. of 8086 microprocessor. [10]**OR** With a neat diagram explain the 8086 CPU pin diagram? Discuss in brief about each pin. [10]

Write an 8086 assembly language program to find factorial of a given number?

Add comments to your Program.

[10]

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Write 8086 assembly language program to find largest number from a given array of numbers? Add comments to your Program. [10]

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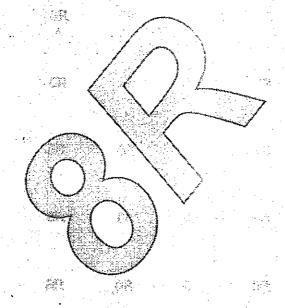
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