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

	COMPUTER ORGANIZATION	
(Computer Science and Engineering)		
Time	e: 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 F Part B consists of 5 Units. Answer any one full question from eac Each question carries 10 marks and may have a, b, c as sub questions.	<sup>P</sup> art <b>A</b> . ch unit.
	PART- A	
		25 Marks)
1.a) b) c) d) e) f) g) h) i)	Compare RISC and CISC architecture? Give an example to explain three address instruction formats. What is strobe signal? Why does the DMA having priority over CPU when both requests for transfer? Give the basic structure of cache and what is its use. With a neat diagram explain memory connection to CPU. State and explain any two addressing modes of 8086. With a neat sketch explain the concept of a pipeline? Give examples to explain call instructions in 8086. Briefly discuss about unconditional branch statements.	[2M] [3M] [2M] or memory [3M] [2M] [3M] [2M] [3M] [2M] [3M] [3M]
	PART-B	
		0 Marks)
2.	Write in detail about various types of instructions? Give examples for ea	ch one. [10]
3.a) b)	Discuss about status bits in program control register.  Explain in detail about conditional branch instructions.	[5+5]
4.	With a neat diagram explain the architecture of 8089 I/O processor.  OR	[10]
5.	With a neat block diagram show the DMA transfer in a computer system	. [10]
6.	What do you mean by virtual memory? Discuss how paging implementing virtual memory.  OR	helps in [10]
7.	Describe in detail about working of associative memory.	[10]
8.	With a neat architectural diagram explain the functioning of microprocessor.	of 8086 [10]
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With a neat diagram explain the 8086 CPU pin diagram? Discuss in brief about



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Write an 8086 assembly language program to find factorial of a given number?
Add comments to your Program. [10]

OR

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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