R16

Code No: 134AK

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B.Tech II Year II Semester Examinations, December - 2018

COMPUTER ORGANIZATION

	Common to CSE, IT)								
	Miles	ix. Marks: 75							
Time:	3 Hours								
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 Part B consists of 5 Units. Answer any one full questions.								
QD	Part B consists of 5 Offits. Affavor any carries 10 marks and may have a, b, c as sub questions. PART - A	8K	Sarks)						
QEN.	· · · · · · · · · · · · · · · · · · ·		2]						
1.a) b)	Write the generic Instruction types present in a computer system. What is the difference between a direct and an indirect address instruction types present in a computer system. List the four basic functions of the CPU.	ruction? [3] 2] 3]						
c) d) e)	Give a note on Instruction Set of 8080.	RD I	2]						
(f) (g)	How a clock signal is generated in 8086 microprocessor? List four peripherals devices that produce an acceptable out understand. How many characters per second can be transmitted over a large signal and the second can be s	a 1200 baud	[2] line in						
h)	Synchronous serial transmission? Synchronous serial transmission?	aviate from its	ری normal						
i)	What are the difficulties that cause the mountain	The state of the s	[2]						
\mathbb{R}^{j}	operation? Draw the structure of general purpose multicomputer.	ðK .							
	PART - B	5 × 10 mar	ks = 50						
	How many references to memory are needed for each type of	instruction to b	ring an						
2.a) b)	How many references to memory are needed to operand into a processor register? Explain. With the help of a block diagram, explain how do we select	the address of	control [5+5]						
	memory S OR		U/L V						
3.a) b)	Give a brief note on instruction cycle. List and explain the functional units of a computer.		[5+5]						
4.	Draw and explain the 8086 Processor Architecture. OR	, en	[10]						
5.a) b)	Explain the Assembler Directives. Discuss the Physical memory organization.	8H	[5+5]						
6.	How to pass parameters to procedures in 8086? Explain in detail OR	with an ALP.	[10]						
7.a) b)	Is 'c' an assembly language? Justify your answer. With an assembly language program explain stack organization in	1 8086.	[4+6]						
	9D 8R 8K 8K	OK.	OM						

8R.	8R	8R	SE	9 R	88	3R		
8.	interrupt drive	rupt driven data n transfer scheme	e. OR		ng block diagran			
•S \(\bigsig\) \(\bigsig\) \(\bigsig\) \(\bigsig\) \(\bigsig\) \(\bigsig\)	Distinguish b	s multiplication a	algorithm with ex all memory and	l cache memor	y. Write the m	[10] erits and		
b)	demerits of virtual memory. Give a neat sketch that illustrates the components in a typical memory hierarchy. [5+5] OR With the help of a neat diagram explain the match logic for one word of associative							
11.a)	with the help memory. What are the multi processo	various forms a	vailable for esta	blishing an inte	rconnection netv	vork in a	e Just	
*			00000	-				
88	8R	.8R	3 R	8R	8R	3R		
87	8R,						ξ	
8R	8R	8R	8R	8R	·8R	8R		
8R	8R	8R	8R	87	8R	8 2		
8 R	8R	8 R	SR	8 <u></u>	8 8	8R		