Code No: 113BQ

R13

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B.Tech II Year I Semester Examinations, May/June – 2019
DIGITAL LOGIC DESIGN AND COMPUTER ORGANIZATION
(Information Technology)

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.

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PART – A

(25 Marks)

1.a)	Explain about Supercomputers and Grid computers.	[2]
b)	Convert the number from $(402)_8$ to $(\quad)_8$	[3]
c)	Draw the JK Flip-flop circuit and write truth table of it.	[2]
d)	Explain about multiplexers with a neat sketch.	[3]
e)	Explain about byte addressability.	[2]
f)	Explain about memory operations.	[3]
g)	Explain about the basic structure for data processing.	[2]
h)	Explain about Flash memory.	[3]
i)	What is Vectored Interrupt?	[2]
j)	Explain about PCI bus.	[3]

PART – B

(50 Marks)

2.a)	Explain about the performance evaluation of computers.	
b)	Compare signed and unsigned binary numbers with table.	[5+5]
	OR	
3.a)	Convert the following pairs of decimal numbers to 5-bit 2's-complement numbers, then perform addition and subtraction on each pair. Indicate whether or not overflow occurs for each case. i) 7 and 13 ii) −12 and 9	
b)	Explain about Floating-Point Representation with an example.	[5+5]
4.a)	Simplify the following Boolean function F , together with the don't-care conditions d, and then express the simplified function in sum-of-min terms form. $F(x,y,z)= \sum(0, 1, 4, 5, 6)d(x,y,z)=\sum(2, 3, 7)$	
b)	Explain about Shift Registers with an example.	[5+5]
	OR	
5.a)	Design a combinational circuit that compares two 4-bit numbers to check if they are equal. The circuit output is equal to 1 if the two numbers are equal and 0 otherwise.	
b)	Explain about ripple counter and ring counters.	[5+5]

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Michael Hoelscher

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