

Code No: 07A5EC01

Set No. 1

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

III B.Tech. I Sem., I Mid-Term Examinations, September – 2010

COMPUTER SYSTEM ORGANIZATION

Objective Exam

Name: _____ Hall Ticket No.

						A			
--	--	--	--	--	--	---	--	--	--

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 20.

I Choose the correct alternative:

1. _____ is concerned with the way the hardware components connected together to form the computer system []
a) Computer Architecture b) Computer Design
c) Computer Monitoring d) Computer Organization
2. $(xy)^1$ states _____ according to Demorgan's Law []
a) x^1y^1 b) $(xy)^1$ c) (x^1+y^1) d) Insufficient data
3. Convert $(41.6875)_{10}$ to _____ binary []
a) $(101001.1011)_2$ b) $(10100.11011)_2$
c) $(1010011.011)_2$ d) $(10100110.11)_2$
4. A bus system can be constructed with a high impedance state is []
a) Resistant state b) Capacitance State
c) High Impedance State d) Process State
5. Booths multiplication algorithm specifies a procedure for multiplying two Binary integers in []
a) signed 2's compliment b) signed 1's compliment
c) signed magnitude d) none of the above
6. To design a common bus system for 4 register of 4-bits each, by using tristate buffers and a decoder, what is the size of the decoder? []
a) 2 to 4 Decoder b) 3 to 8 Decoder c) 4 to 16 Decoder d) 5 to 32 decoder
7. If the address field of an instruction specifies the effective address, then the instruction is []
a) Immediate Instruction b) Direct Instruction
c) Indirect Instruction d) None
8. When two normalized mantissas are added, the sum may contain []
a) Underflow b) Overflow c) no Underflow d) no Overflow
9. The advantage of biased exponent is that the exponent is represented as []
a) Positive Number b) Negative Member c) Unsigned Number d) None
10. Which of the following is also called the next address generator for a Control memory []
a) Multiplier b) Micro program sequencer
c) Control Address Register d) Program Counter

Cont.....2

II Fill in the blanks:

11. _____ is a group of bits that instruct the computer to perform a specific operation.
12. _____ holds the address of the instruction to be fetched from the memory.
13. Fetching the instruction from memory is called as _____
14. The concurrent execution of several application programs to make the best possible use of computer resources by the operating system known as _____
15. After the arithmetic shift left operation of a register, if there is sign reversal, then _____ occurs.
16. The type of shift used to shift the contents of a register which contains a signed binary number is called _____
17. In a memory stack, after the pop operation, the stack pointer will be _____
18. Immediate corresponds to _____ reference instructions.
19. BSA corresponds to _____ type instruction.
20. If the memory size is 4096×16 , then _____ address lines are required to address any memory location

-oOo-

II Fill in the blanks:

11. The concurrent execution of several application programs to make the best possible use of computer resources by the operating system known as _____
12. After the arithmetic shift left operation of a register, if there is sign reversal, then _____ occurs.
13. The type of shift used to shift the contents of a register which contains a signed binary number is called _____
14. In a memory stack, after the pop operation, the stack pointer will be _____
15. Immediate corresponds to _____ reference instructions.
16. BSA corresponds to _____ type instruction.
17. If the memory size is 4096×16 , then _____ address lines are required to address any memory location
18. _____ is a group of bits that instruct the computer to perform a specific operation.
19. _____ holds the address of the instruction to be fetched from the memory.
20. Fetching the instruction from memory is called as _____

-oOo-

Objective Exam

Name: _____ Hall Ticket No.

						A			
--	--	--	--	--	--	---	--	--	--

Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 20.**I Choose the correct alternative:**

1. To design a common bus system for 4 register of 4-bits each, by using tristate buffers and a decoder, what is the size of the decoder? []
a) 2 to 4 Decoder b) 3 to 8 Decoder c) 4 to 16 Decoder d) 5 to 32 decoder
2. If the address field of an instruction specifies the effective address, then the instruction is []
a) Immediate Instruction b) Direct Instruction
c) Indirect Instruction d) None
3. When two normalized mantissas are added, the sum may contain []
a) Underflow b) Overflow c) no Underflow d) no Overflow
4. The advantage of biased exponent is that the exponent is represented as []
a) Positive Number b) Negative Member c) Unsigned Number d) None
5. Which of the following is also called the next address generator for a Control memory []
a) Multiplier b) Micro program sequencer
c) Control Address Register d) Program Counter
6. _____ is concerned with the way the hardware components connected together to form the computer system []
a) Computer Architecture b) Computer Design
c) Computer Monitoring d) Computer Organization
7. $(xy)^1$ states _____ according to Demorgan's Law []
a) x^1y^1 b) $(xy)^1$ c) (x^1+y^1) d) Insufficient data
8. Convert $(41.6875)_{10}$ to _____ binary []
a) $(101001.1011)_2$ b) $(10100.11011)_2$
c) $(1010011.011)_2$ d) $(10100110.11)_2$
9. A bus system can be constructed with a high impedance state is []
a) Resistant state b) Capacitance State
c) High Impedance State d) Process State
10. Booths multiplication algorithm specifies a procedure for multiplying two Binary integers in []
a) signed 2's compliment b) signed 1's compliment
c) signed magnitude d) none of the above

II Fill in the blanks:

11. The type of shift used to shift the contents of a register which contains a signed binary number is called _____
12. In a memory stack, after the pop operation, the stack pointer will be _____
13. Immediate corresponds to _____ reference instructions.
14. BSA corresponds to _____ type instruction.
15. If the memory size is 4096×16 , then _____ address lines are required to address any memory location
16. _____ is a group of bits that instruct the computer to perform a specific operation.
17. _____ holds the address of the instruction to be fetched from the memory.
18. Fetching the instruction from memory is called as _____
19. The concurrent execution of several application programs to make the best possible use of computer resources by the operating system known as _____
20. After the arithmetic shift left operation of a register, if there is sign reversal, then _____ occurs.

-oOo-

II Fill in the blanks:

11. Immediate corresponds to _____ reference instructions.
12. BSA corresponds to _____ type instruction.
13. If the memory size is 4096×16 , then _____ address lines are required to address any memory location
14. _____ is a group of bits that instruct the computer to perform a specific operation.
15. _____ holds the address of the instruction to be fetched from the memory.
16. Fetching the instruction from memory is called as _____
17. The concurrent execution of several application programs to make the best possible use of computer resources by the operating system known as _____
18. After the arithmetic shift left operation of a register, if there is sign reversal, then _____ occurs.
19. The type of shift used to shift the contents of a register which contains a signed binary number is called _____
20. In a memory stack, after the pop operation, the stack pointer will be _____

-oOo-