Assignment 5

The due date for submitting this assignment has passed. 
Academic诚信 requires you not submit unspecified assignment.

1. A vector multiple can contain one of five options to be used. 1. How many different options does the MLT have? 1 point
   a) Idle
   b) Visit 2
   c) Visit 2 to 100
   d) Visit 1 to 100 and 101 to 100
   e) Visit 1 to 50 and 51 to 100

2. A GILL can be treated as the longest function given below, what will be the minimum size of the R3M? 1 point
   a) 4
   b) 16
   c) 64
   d) 128
   e) 256

3. What is the size of the primary level memory? 1 point

4. A 128 x 128 Multiplexer can be designed hierarchically, using one of the following multiple answers can be correct. 1 point
   a) Ten 16 x 16 Multiplexers and nine 1-1 line Multiplexer
   b) Ten 16 x 16 Multiplexers and one 1-1 line Multiplexer
   c) Four 16 x 16 Multiplexers and ten 1-1 line Multiplexer
   d) Four 16 x 16 Multiplexers and one 1-1 line Multiplexer
   e) None of these

5. Which of the following statements is correct? 1 point
   a) Write the output of the instruction and the result on the address
   b) The instruction is processed only when the result is available
   c) The instruction is processed only when the output of the instruction is available
   d) The instruction is processed only on the output of the instruction is available
   e) None of the above

6. A 10 x 10 multiplier is to be designed using a gray code. There are 10 inputs, 64, 61, 62, ... 1. Only one input will be high at one time. Four examples 72, 71, 52, 31 are given. 1 point

7. For reference, the full gray code is: 1 point
   0000 0001 0010 0011 0100 0101 0110 0111 1000 1001 1010 1011 1100 1101 1110 1111
   a) 4
   b) 5
   c) 6
   d) 7
   e) 8

8. Any arbitrary boolean function with all input variables cannot always be implemented with an 1-point
   a) OR
   b) AND
   c) XOR
   d) XOR
   e) None of the above

9. Which of the following statement is correct about programable logic? 1 point
   a) Programable logic has more flexibility as compared to programmable memory
   b) Programable logic has less flexibility as compared to programmable memory
   c) Programable logic has no programmable logic
   d) Programable memory has programmable logic
   e) Programable memory has no programmable logic

10. Program in assembler:
    ```assembly
        MOV AX, 1000H
        ADD AX, 2000H
        MOV DS, AX
        MOV ES, AX
    ```

11. What is the order of the following?
    a) 1, 2, 3, 4
    b) 1, 4, 2, 3
    c) 1, 2, 4, 3
    d) 4, 2, 3, 1
    e) None of the above

12. Chain of the following sequence: 1 point
    a) A, B, C, D
    b) B, A, C, D
    c) B, C, A, D
    d) D, C, B, A
    e) None of the above

13. Program in assembler with one of the following options: 1 point
    a) Using 8085 instruction set
    b) Using 8086 instruction set
    c) Using X86 instruction set
    d) Using other instruction set
    e) None of the above

14. Program in assembler with one of the following options: 1 point
    a) Using 8085 instruction set
    b) Using 8086 instruction set
    c) Using X86 instruction set
    d) Using other instruction set
    e) None of the above

15. Which of the following statement is correct about programable logic?
    a) Programable logic has more flexibility as compared to programmable memory
    b) Programable logic has less flexibility as compared to programmable memory
    c) Programable logic has no programmable logic
    d) Programable memory has programmable logic
    e) Programable memory has no programmable logic

16. If some steps are not equal, 1 point
    a) 3
    b) 4
    c) 5
    d) 6
    e) 7

17. If some steps are not equal, 1 point
    a) 3
    b) 4
    c) 5
    d) 6
    e) 7

18. Assume the following program:
    ```assembly
    MOV AX, 100H
    ADD AX, 200H
    MOV DS, AX
    MOV ES, AX
    ```
    a) The program will stop at line 3.
    b) The program will stop at line 4.
    c) The program will stop at line 5.
    d) The program will stop at line 6.
    e) None of the above

19. Program in assembler:
    ```assembly
    MOV AX, 100H
    ADD AX, 200H
    MOV DS, AX
    MOV ES, AX
    ```
    a) Using 8085 instruction set
    b) Using 8086 instruction set
    c) Using X86 instruction set
    d) Using other instruction set
    e) None of the above

20. Program in assembler:
    ```assembly
    MOV AX, 100H
    ADD AX, 200H
    MOV DS, AX
    MOV ES, AX
    ```
    a) Using 8085 instruction set
    b) Using 8086 instruction set
    c) Using X86 instruction set
    d) Using other instruction set
    e) None of the above