

*請在答案卡內作答

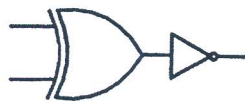
單選題 (1~20), 每題 3 分, 不倒扣

1. Given a decimal number $(19.375)_{10}$, please calculate its corresponding **binary value**.
 (A) 10001.101 (B) 10011.011 (C) 1.011 (D) 1110.0101 (E) None of the above.

2. Let X and Y be two **8-bit signed integers**, where $X = 01100001$, $Y = 00001111$
 The result of $X+Y$ should be
 (A) 11110000 (B) 00110000 (C) 01110000 (D) 10110000 (E) None of the above

3. Which one of the following circuits is NOT equivalent to a 2-input XNOR (exclusive NOR) gate?

(A)



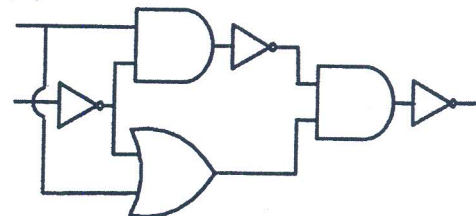
(B)



(C)



(D)



4. X and Y are two real numbers in IEEE single-precision floating-point format:

$X = 0\ 10000001\ 011100000000000000000000$,

$Y = 0\ 10000110\ 010000111100000000000000$

Calculate and show the result of $X+Y$.

- (A) 0 10000110 010011110100000000000000
 (B) 0 10000001 010000111100000000000000
 (C) 0 10000110 010000111100000000000000
 (D) 0 00000000 010011110100000000000000
 (E) None of the above

5. An operating system can put resource restrictions on processes to prevent ____.

- (A) starvation (B) synchronization (C) paging (D) deadlock

6. Which of the following is true regarding ADT (Abstract Data Types)?

- (A) Computer languages do not provide ADT packages. To use an ADT, it is first implanted and kept in a library.
 (B) A **stack** is a linear list in which data can only be inserted at one end, call the **rear**, and deleted from the other end, call the front.
 (C) **Stacks** are familiar from everyday life. A line of people waiting for the bus at bus station is a queue.
 (D) Queues are known as **last in, first out (LIFO)** data structure.
 (E) None of the above

7. Which of the following is true regarding **File structures**?

- (A) Compared to sequential, indexed and hashed file, only an sequential file can be accessed randomly.
 (B) If we need to access a file, one record after another, from beginning to end, we will use a **random access** file structure.
 (C) A **indexed file** uses a mathematical function to map the key to the address.
 (D) none of the above

參考用

注意：背面有試題

