

CSE / CS & IS

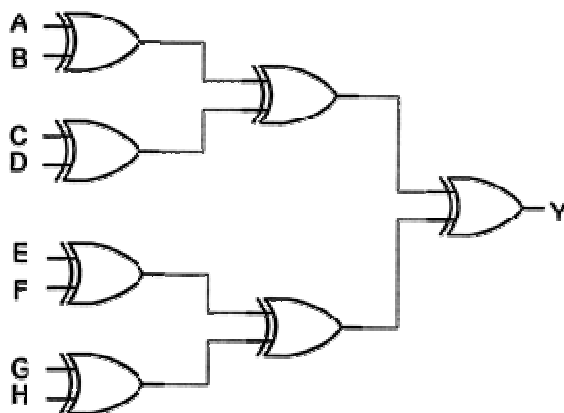
1. A full subtractor circuit requires _____.
 (A) two inputs and two outputs
 (B) two inputs and three outputs
 (C) three inputs and one output
 (D) three inputs and two outputs

2. Give the decimal value of binary 10010.
 (A) 6 (B) 9 (C) 18 (D) 20

3. A type of digital circuit technology that uses bipolar junction transistors is _____.
 (A) TTL (B) CMOS (C) LSI (D) NMOS

4. The NAND or NOR gates are referred to as "universal" gates because either
 (A) can be found in almost all digital circuits
 (B) can be used to build all the other types of gates
 (C) are used in all countries of the world
 (D) were the first gates to be integrated

5. The 8-input XOR circuit shown has an output of $Y = 1$. Which input combination below (ordered A – H) is correct?



- | | |
|--------------|--------------|
| (A) 10111100 | (B) 10111000 |
| (C) 11100111 | (D) 11111000 |

SPACE FOR ROUGH WORK