**Self-Assessment 2-7**

7. Using the Six Major Logic Gates diagram in figure 2.1, section I-C of the Commentary, answer the following questions:

1. Which gate provides an output of 0 if any of the inputs are equal to 0?
2. Which gate provides an output of 0 if and only if all of the inputs are equal to 1?
3. Which gate provides an output of 0 if any of the inputs are equal to 1?
4. Which gate provides an output of 0 if and only if all of the inputs are equal to 0?

**Answer**

1. AND gate
2. NAND gate
3. NOR gate
4. OR gate