



Name: \_\_\_\_\_

ID: A

- \_\_\_\_\_ 12. In a neutral solution, the  $[H^+]$  is \_\_\_\_.
- a.  $10^{-14} M$
  - b. zero
  - c.  $1 \times 10^7 M$
  - d. equal to  $[OH^-]$
- \_\_\_\_\_ 13. Which of these solutions is the most basic?
- a.  $[H^+] = 1 \times 10^{-2} M$
  - b.  $[OH^-] = 1 \times 10^{-4} M$
  - c.  $[H^+] = 1 \times 10^{-11} M$
  - d.  $[OH^-] = 1 \times 10^{-13} M$
- \_\_\_\_\_ 14. Which of the following pairs consists of a strong acid and a strong base?
- a. hydrobromic acid, lithium hydroxide
  - b. acetic acid, ammonia
  - c. acetic acid, sodium hydroxide
  - d. nitrous acid, strontium hydroxide

### Multiple Response

*Identify one or more choices that best complete the statement or answer the question.*

- \_\_\_\_\_ 15. Which of the following are strong acids?
- a. hydrochloric acid
  - b. perchloric acid
  - c. hydrofluoric acid
  - d. sulfurous acid
- \_\_\_\_\_ 16. Which of the following pH values are basic?
- a.  $pOH = 2$
  - b.  $pH = 8$
  - c.  $pOH = 12$
  - d.  $pH = 11$

**Ch 19 Practice Test  
Answer Section**

**MULTIPLE CHOICE**

- |     |                       |                       |         |                      |
|-----|-----------------------|-----------------------|---------|----------------------|
| 1.  | ANS: A<br>OBJ: 19.1.1 | PTS: 1<br>STA: Ch.5.a | DIF: L1 | REF: p. 587          |
| 2.  | ANS: B<br>OBJ: 19.1.1 | PTS: 1                | DIF: L1 | REF: p. 588          |
| 3.  | ANS: A<br>OBJ: 19.1.2 | PTS: 1<br>STA: Ch.5.e | DIF: L1 | REF: p. 589          |
| 4.  | ANS: B<br>OBJ: 19.1.2 | PTS: 1<br>STA: Ch.5.e | DIF: L1 | REF: p. 591          |
| 5.  | ANS: A<br>OBJ: 19.1.2 | PTS: 1<br>STA: Ch.5.e | DIF: L2 | REF: p. 591          |
| 6.  | ANS: D<br>OBJ: 19.1.2 | PTS: 1<br>STA: Ch.5.e | DIF: L2 | REF: p. 590          |
| 7.  | ANS: A<br>OBJ: 19.1.2 | PTS: 1<br>STA: Ch.5.e | DIF: L2 | REF: p. 592          |
| 8.  | ANS: B<br>OBJ: 19.1.2 | PTS: 1<br>STA: Ch.5.b | DIF: L2 | REF: p. 591          |
| 9.  | ANS: D<br>OBJ: 19.1.2 | PTS: 1<br>STA: Ch.5.e | DIF: L2 | REF: p. 591          |
| 10. | ANS: D<br>OBJ: 19.2.1 | PTS: 1<br>STA: Ch.5.b | DIF: L1 | REF: p. 594          |
| 11. | ANS: D<br>OBJ: 19.2.1 | PTS: 1<br>STA: Ch.5.c | DIF: L1 | REF: p. 594          |
| 12. | ANS: D<br>OBJ: 19.2.1 | PTS: 1<br>STA: Ch.5.d | DIF: L1 | REF: p. 595          |
| 13. | ANS: C<br>OBJ: 19.2.2 | PTS: 1<br>STA: Ch.5.d | DIF: L2 | REF: p. 597   p. 598 |
| 14. | ANS: A<br>OBJ: 19.3.2 | PTS: 1<br>STA: Ch.5.c | DIF: L3 | REF: p. 609          |

**MULTIPLE RESPONSE**

- |     |              |        |
|-----|--------------|--------|
| 15. | ANS: A, B    | PTS: 1 |
| 16. | ANS: A, B, D | PTS: 1 |