

TOPIC 12 ANSWERS TO EXERCISES

Topic 12 Exercise 1

1. a) acid b) both c) acid d) both e) base
 f) base g) both h) both i) both j) both
 k) both
2. a) H_2O b) HClO_4 c) HSO_4^- d) H_3O^+
3. a) HCO_3^- (acid) and CO_3^{2-} (base), H_2O (base) and H_3O^+ (acid)
 b) HCO_3^- (base) and $\text{CO}_2 + \text{H}_2\text{O}$ (acid), H_3O^+ (acid) and H_2O (base)
 c) H_2SO_4 (acid) and HSO_4^- (base), HNO_3 (base) and $\text{NO}_3^- + \text{H}_2\text{O}$ (acid)
 d) HSO_4^- (acid) and SO_4^{2-} (base), OH^- (base) and H_2O (acid)

Topic 12 Exercise 2

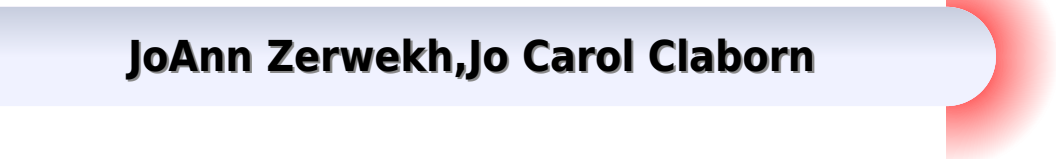
1. a) 3.00 b) 11.30 c) 2.60 d) 4.89 e) 1.65
 f) 12.60
2. a) $1.0 \times 10^{-3} \text{ mol dm}^{-3}$ b) $6.3 \times 10^{-3} \text{ mol dm}^{-3}$ c) $1.0 \times 10^{-3} \text{ mol dm}^{-3}$
3. $2.0 \times 10^{-3} \text{ mol dm}^{-3}$
4. 76

Topic 12 Exercise 3

1. a) resists large pH change on addition of small amounts of acid or alkali
 b) 4.60
 c) $\text{CH}_3\text{CH}_2\text{COOH} + \text{OH}^- \rightarrow \text{CH}_3\text{CH}_2\text{COO}^- + \text{H}_2\text{O}$
 $\text{CH}_3\text{CH}_2\text{COO}^- + \text{H}^+ \rightarrow \text{CH}_3\text{CH}_2\text{COOH}$
 d) 4.84 e) 4.30 f) 12.30
 g) the buffer solution restricts the pH change to 0.24 units, but the water changes its pH by 5.30 units (from 7 to 12.3).
2. a) 2.85 b) 3.33 g c) 4.41 d) 4.77
3. 8.65
4. salt: acid ratio 1.58:1
5. a) 10.21 b) 10.01 c) 10.54 d) 13.00
 e) buffering capacity has been exceeded, so cannot resist change in pH

Chemistry Review Topic 12 Answers

JoAnn Zerwekh, Jo Carol Claborn



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