ACID-BASE WORKSHEET

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| --- | --- | --- | --- |
| 1 | A | 26 | A |
| 2 | E | 27 | II |
| 3 | 2.82 | 28 | a. CH3COO-(aq) + H2O(l) ⇌ OH-(aq) + CH3COOH(aq)  b. NH4+(aq) + H2O(l) ⇌ H3O+(aq) + NH3(aq) |
| 4 | B | 29 | B |
| 5 | D | 30 | NH4CH3COO < NaCH3COO < Ba(CH3COO)2 |
| 6 | HIO3 | 31 | B |
| 7 | 0.021 | 32 | C |
| 8 | 1 × 10-9 | 33 | C |
| 9 | 5.30 | 34 | 4.74 |
| 10 | 2.35 | 35 | B < A < C |
| 11 | 1.74 | 36 | C |
| 12 | 2.10 | 37 | E |
| 13 | A | 38 | 37.5 mL |
| 14 | C | 39 | B |
| 15 | 3 | 40 | D |
| 16 | 2.95 × 10-10 M | 41 | 1 and 3 |
| 17 | 1.58 × 10-3 M | 42 | E |
| 18 | D | 43 | hypochlorous acid |
| 19 | 4.9 x 104 | 44 | 2.74 |
| 20 | 3.2 × 10-14 | 45 | 1.2 × 10-10 |
| 21 | I and IV |  |  |
| 22 | ClO2- < HPO42- < ClO- < CN- |  |  |
| 23 | D |  |  |
| 24 | A |  |  |
| 25 | E |  |  |