

14.1

HYDROGEN IONS AND ACIDITY

Section Overview

Objectives

1. Identify conjugate acid-base pairs of ions, acids, or hydroxides and of aqueous acids/bases.
2. Calculate hydroxide and hydronium ion concentrations and pH/pOH and the associated logarithmic functions.
3. Calculate the pH/pOH of an aqueous solution.

Vocabulary

- | | | |
|-------------------|-------------------------------|------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. acid solution |
| 4. autoionization | 5. hydronium ion (H_3O^+) | 6. hydroxide ion |
| | 7. acid solution | 8. pH |

Key Equations

- | | |
|---|-------------------------|
| 1. $[H_3O^+][OH^-] = 1.0 \times 10^{-14}$ (at 25°C) | 2. $pH = -\log[H_3O^+]$ |
| 3. $pH = -\log[H_3O^+]$ | 4. $pOH = -\log[OH^-]$ |

Part A: Completion

Use the appropriate number to identify the relationship of the conjugate acid-base pair represented in the reaction. Also indicate which member of the pair is the stronger acid.

1. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$ (strong acid/strong base)
2. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$ (strong acid/weak base)
3. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$ (strong acid/strong base)
4. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$ (strong acid/strong base)
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10. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$ (strong acid/strong base)

11. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

12. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

13. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

14. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

15. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

16. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

17. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

18. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

19. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

20. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

21. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

22. $H_2SO_4 + H_2O \rightleftharpoons HSO_4^- + H_3O^+$

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JL Elias



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rp19 900 harga modul kit drl led tipe s10 sein mode running 7 jalur dc 12 volt dan 24

membuat lampu led variasi pada lampu belakang sepeda motor - May 01 2023

web maka ketika harus diperhatikan dalam membuat lampu led variasi harus ada dua grup lampu led bahan yang dibutuhkan dalam membuat project variasi lampu kali ini antara lain proses pembuatannya diawali dengan melepas dudukan lampu bagian lampu belakang pada sepeda motor kemudian lepas rangkaian lampu belakang dan ukur

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web running led atau lampu berjalan adalah rangkaian lampu yang sering digunakan pada lampu variasi sepeda motor maupun pada mobil running led ini pada dasarnya terdiri dari 10 buah led yang dapat menyala secara berurutan secara terus menerus

lampu led pengertian fungsi jenis membuat rangkaian - Aug 04 2023

web oct 31 2023 di pasaran mungkin kita sering menemukan rangkaian lampu led 3 volt rangkaian lampu led 5 volt rangkaian lampu led 12 volt dan seterusnya namun sebenarnya daya pada rangkaian lampu led tersebut sudah diproduksi spesifik berdasarkan warna yang dikeluarkannya

menentukan besarnya nilai resistor untuk lampu led sepeda - Jan 29 2023

web lampu led pada motor bagaimana cara membuat lampu led berkedip atau lampu berjalan untuk variasi motor melihat banyaknya gambar skema rangkaian lampu led untuk sepeda motor kadang menjadikan kita untuk lebih berpikir kreatif tentang seperti apa cara penyusunan rangkaian tersebut supaya dapat difungsikan kedalam instalasi listrik

cara membuat rangkaian lampu led untuk sepeda motor 12 - Dec 28 2022

web cara membuat rangkaian lampu led untuk sepeda motor 12 volt lampu jenis led memiliki beberapa keunggulan dibandingkan dengan lampu biasa ketika diterapkan pada sepeda motor

cara membuat lampu led variasi menggunakan media selang dan - Sep 24 2022

web cara membuat lampu led variasi menggunakan media selang dan air rangkaian bell cerdas cermat menggunakan relay 5 peserta membuat lampu led strobo sepeda motor menggunakan ic timer ne555 cara install dan crack bascom avr 2 0 7 5

membuat alat test pen dc 12 v 24 v

skema kode 12 led berjalan lampu variasi motor mobil - Jun 02 2023

web aug 14 2023 bedanya kali ini menggunakan 12 channel untuk output 12 led berikut skema rangkaiannya skema 12 led berjalan atmega8 lampu variasi motor mobil keterangan dan komponen elektronik ic atmega8 12 buah led 1 buah resistor 33 100 ohm 1 buah resistor 10k ohm 1 buah resistor 1k ohm ic regulator 5v 7805 opsional 2