## Answer on Question #66943 - Chemistry - Physical Chemistry

## Question:

Question 12: The pH of a neutral solution is

6

8

5

7

Question 13: How long would a constant current of 18.0 amperes be required to flow in order for 9000. coulombs of charge to pass through a cell

50 s

0.002 s

200 s

500 s

Question 14: The conjugate base of HCl is

HOCI

H+

OH-

Cl-

Question 15 : Buffering is:

all of these

due to LeChatelier's Principle

influenced by the common ion effect

is a process that is done by a solution made up of a weak acid and its salt

## **Solution:**

Question 12: Neutral solution is the one solution whose pH is 7. So the correct answer: 7.

Question 13:  $I = \frac{q}{t}$ 

$$t = \frac{q}{I} = \frac{9000}{18} = 500 \ sec$$

So the correct answer: 500 s.

Question 14: Conjugated particle basis and is formed after the acid when given pronon.

$$HCI + X = CI^- + XH^+$$

Where HCl – acid, X – base, Cl<sup>-</sup> - conjugate base, XH<sup>+</sup> - conjugate acid.

So the correct answer: Cl<sup>-</sup>.

Question 15: The correct answer: all of these.

Answer: Question 12: 7;

Question 13: 500 s;

Question 14: Cl<sup>-</sup>;

Question 15: all of these.