

# Ionic Equilibrium

## Set- 1

Table 7.5 The pH of Some Common Substances

Name of the Fluid	pH	Name of the Fluid	pH
Saturated solution of NaOH	~15	Black Coffee	5.0
0.1 M NaOH solution	13	Tomato juice	~4.2
Lime water	10.5	Soft drinks and vinegar	~3.0
Milk of magnesia	10	Lemon juice	~2.2
Egg white, sea water	7.8	Gastric juice	~1.2
Human blood	7.4	1M HCl solution	~0
Milk	6.8	Concentrated HCl	~-1.0
Human Saliva	6.4		

**Q1. What is the pH value of blood**

- A. 8.1
- B. 9.5
- C. 5.5
- D. 7.4

**Ans. (D)**

**Q2. Human saliva is**

- A. Acidic
- B. Basic
- C. Neutral
- D. Cannot say

**Ans. (A)**

**Q3. Which of the following has the highest pH value?**

- A. Milk of magnesia
- B. Black coffee
- C. Vinegar
- D. Lemon juice



Ans. (A)

**Q4. Which of the following has the lowest pH value?**

- A. Egg white
- B. 0.1M NaOH solution
- C. Tomato Juice
- D. Lime water

Ans. (C)

**Q5. Categorise the following substances Lime water, Human blood, gastric juice**

- A. Basic, neutral, acidic
- B. Acidic, basic , neutral
- C. Neutral, basic, acidic
- D. Acidic, neutral, basic

Ans. (A)

### Set – 2

Category I	Soluble	Solubility $> 0.1M$
Category II	Slightly Soluble	$0.01M < \text{Solubility} < 0.1M$
Category III	Sparingly Soluble	Solubility $< 0.01M$

**Q1. A salt is soluble when its solubility is**

- A.  $> 0.1M$
- B.  $< 0.01M$
- C. In between  $0.01M$  and  $0.1M$
- D. Cannot say

Ans. (A)



**Q2. Solubility of a salt is 0.035M . The salt is**

- A. Soluble
- B. Sparingly Soluble
- C. Slightly Soluble
- D. Cannot say

**Ans. (C)**

**Q3. Sparingly Soluble salt has solubility**

- A.  $<0.01M$
- B.  $>0.1M$
- C. In between  $0.01M$  and  $0.1M$
- D. Cannot say

**Ans. (A)**

