

# ACIDS, BASES, SALTS AND METALS BASED GENERAL SCIENCE MCQ PRACTICE QUESTIONS AND ANSWERS PDF WITH EXPLANATION

For All Competitive SSC, Bank, IBPS, UPSC, Railway, IT & Other Govt. Exams

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**Q1.** Select the one that is having pH 7.

- a) lime water
  - b) human blood
  - c) lime juice
  - d) antcid.
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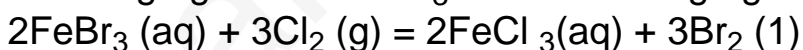
**Q2.** When a few drops of lemon are mixed with milk

- i. It turns sour
- ii. No change takes place
- iii. Properties of milk are changed
- iv. Properties of milk remain the same

Which of the above statements is/are **correct**?

- a) (i) and (ii)
  - b) (i) and (iii)
  - c) (ii) and (iii)
  - d) (i) only
- 

**Q3.** The following equation is an example of a redox reaction, in which  $\text{Cl}_2$  is the oxidizing agent and  $\text{FeBr}_3$  is the reducing agent :



Which one among the following statements is **incorrect** for this redox reaction?

- a) Reducing agents are themselves oxidized
  - b) Oxidizing agents are themselves reduced
  - c) Reducing agents gain or appear to gain electrons
  - d) Oxidizing agents oxidize other substances
-

**Q4.** Match List-I with List-II:

List-I	List-II
A. Washing soda	1. Sodium Hydroxide
B. Caustic soda	2. Copper Sulphate
C. Neela thotha	3. Sodium Thiosulphate
D. Hypo	4. Sodium Carbonate

Select the correct answer using the codes given below the list: Code (A) (B) (C) (D)

a) 4 1 2 3

b) 4 2 3 1

c) 1 3 4 2

d) 3 2 1 4

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**Q5.** The presence of which of the following acid causes indigestion:

a) Oxalic acid

b) Acetic acid

c) Citric acid

d) Hydrochloric acid

**Q6.** Aluminium is used in thermite welding because –

a) aluminium is a strong oxidising agent

b) aluminium is a light metal

c) aluminium has more affinity for oxygen

d) aluminium is a reactive metal

**Q7.** Acids and bases are important because of

- a) their effects on human health
  - b) their effect on farmer's crop
  - c) their use in industry
  - d) all the above are correct.
- 

**Q8.** Which chemical compound is present in Bleaching Powder?

- a) Calcium Oxychloride
  - b) Calcium Carbonate
  - c) Calcium Hydroxide
  - d) Ammonium Chloride
- 

**Q9.** Why bases are kept in glass bottles?

- a) Bases are corrosive in nature
  - b) Bases produce  $\text{OH}^-$  ions in aqueous solutions
  - c) Basic solutions are conducting in nature
  - d) Bases have soapy texture
- 

**Q10.** The hypo solution used in photography is an aqueous solution of

- a) Sodium tetrathionate
  - b) Sodium sulphate
  - c) Sodium thiosulphate
  - d) Ammonium per sulphate
- 

**Q11.** When the stopper of a bottle containing colourless liquid was removed, the bottle gave smell like that of vinegar. The liquid in the bottle could be

- a) sodium hydroxide solution

- b) acetic acid solution  
c) hydrochloric acid  
d) saturated sodium hydrogen carbonate solution

**Q12.** Which is not a Lewis acid?

- a)  $\text{BF}_3$   
b)  $\text{NH}_3$   
c)  $\text{AlCl}_3$   
d)  $\text{FeCl}_3$

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**Q13.** Match Column-I with Column-II:

Column-I (Alloy)	Column-II (Composition of Elements)
A. Steel	P. Cu and Sn
B. Brass	Q. Cu and Zn
C. Bronze	R. Fe, C and Cr
D. Magnalium	S. Al and Mg

Select the correct answer using the codes given below the list: Code (A) (B) (C) (D)

- a) A – Q; B – R; C – S; D – P  
b) A – Q; B – R; C – P; D – S  
c) A–R; B–Q; C–P; D–S  
d) A – R; B – Q; C – S; D – P

**Q14.** Arrange the following bases in increasing order of their, basic strength

- Sodium hydroxide
- Magnesium hydroxide.

- Aluminium hydroxide
- Ammonium hydroxide

Select the correct answer using the code given below Codes: A B C D

- a) 4 3 2 1
- b) 4 2 1 3
- c) 4 1 2 3
- d) 1 2 3 4

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**Q15.** Acids are \_\_\_\_\_ in taste while bases are \_\_\_\_\_ in taste.

- a) sweet, sour
- b) sour, salty
- c) sweet, salty
- d) sour, bitter

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**Answers to the above questions :**

**Q1. Answer: (c)**

Lime juice [Hint : Lime juice is acidic so its pH 7.].

**Q2. Answer: (b)**

When lemon juice is mixed with milk the milk turns sour and changes into 'paneer'.

The properties of milk are completely different from that of '**paneer**'.

**Q3. Answer: (c)**

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**Q4. Answer: (a)**

**Q5. Answer: (d)**

**Q6. Answer: (c)**

**Q7. Answer: (d)**

All the above are correct.

**Q8. Answer: (a)**

**Q9. Answer: (a)**

**Q10. Answer: (c)**

**Q11. Answer: (b)**

acetic acid solutions

**Q12. Answer: (b)**

**Q13. Answer: (c)**

**Q14. Answer: (a)**

**Q15. Answer: (d)**

All acids are sour in taste, like tartaric acid in tamarind and acetic acid in vinegar while all bases are bitter in taste like baking soda.

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