



CHEMISTRY

BOOKS - VGS BRILLIANT CHEMISTRY (TELUGU ENGLISH)

ACIDS, BASES AND SALTS

Exercise

1. Which of the following solution has incorrect option of colour change, when different indicators are used ?

Indicators	$Ca(OH)_2$	CH_3COOH	HNO_3	NH_4OH
Red Litmus	Blue	No colour change	NO colour	Blue
Blue Litmus	No colour change	Red	Red	No colour
Phenolphthalein	Pink	Colourless	Colourless	No colour
Methyl orange	Yellow	Yellow	Pink	Yellow

A. $Ca(OH)_2$ and CH_3COOH

B. CH_3COOH and NH_4OH

C. CH_3COOH and HNO_3

D. $Ca(OH)_2$ and HNO_3

Answer:



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2. When vinegar reacts with baking soda the gas evolved is

A. hydrogen

B. oxygen

C. Carbon dioxide

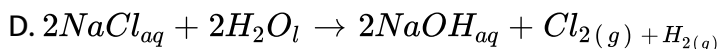
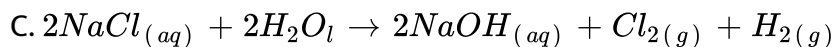
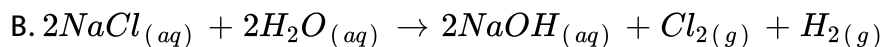
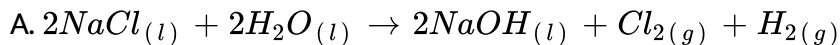
D. nitrogen dioxide

Answer:



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3. Identify the correct representation of reaction occurring during chloroalkali process.



Answer:



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4. During the preparation of hydrogen chloride gas on a humid day, the gas is usually passed through the guard tube containing calcium chloride. The role of calcium chloride taken in the guard tube is to

A. absorb the evolved gas

B. moisten the gas

C. absorb moisture from the gas

D. absorb Cl ions from the evolved gas

Answer:

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5. The aqueous solution of Aluminium Sulphate is

A. Acidic

B. Basic

C. Amphoteric

D. Both (B) and (C)

Answer:

 [Watch Video Solution](#)

6. Plaster of Paris hardens by

- A. giving of CO_2
- B. changing into $CaCO_3$
- C. combining with water
- D. giving out water

Answer:



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7. Consider the following statements :

- a. The hydronium ion (H_3O^+) is the strongest acid that can exist in aqueous solution .
- b. Mixing concentrated acid or bases with water is a highly endothermic reaction .

Which of these statement (s) is / are correct ?

A. A only

B. B only

C. Both A and B

D. Neither A nor B

Answer:



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8. Consider the following statements :

a) Hydrogen chloride gas turns red litmus blue .

b) Lactic acid is one of the mineral acids .

c) Milk of Magnesia is a type of milk .

Which of these statement (s) is / are correct ?

A. a and b

B. a and c

C. All are correct

D. All are incorrect

Answer:



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9. Select the odd one out:

A. 1. Glass

B. 2. Cement

C. 3. Plaster

D. 4. Washing Soda

Answer:



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10. If a few drops of a concentrated acid accidentally spills over the hand of a student what should be done ?

- A. Wash the hand with saline solution.
- B. Wash the land immediately with plenty and water and apply a paste of sodium hydrogen carbonate.
- C. After washing with plenty of water apply solution of sodium hydroxide on the hand.
- D. Neutralise the acid with a strong alkali

Answer:



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11. What is correct for following ?

- i) Lemon Juice
- ii) Solution of washing soda
- iii) Tooth paste
- iv) Stomach juices
- v) Vinegar

A. i, iv, v are acids and ii, iii are bases

B. ii, iii are acids and i, iv, v are bases.

C. i, iii, iv, v are acids and ii is in base.

D. i, ii, iii, are acids and iv, v are bases.

Answer:



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12. A man runs towards a mirror with a speed of $15 \text{ m} - \text{s}^{-1}$. What is the speed of his image?

A. $7.5 \text{ m} - \text{s}^{-1}$

B. $15 \text{ m} - \text{s}^{-1}$

C. $30 \text{ m} - \text{s}^{-1}$

D. $45 \text{ m} - \text{s}^{-1}$

Answer:

13. Which of the following solution has incorrect option of colour change, when different indicators are used ?

Indicators	$Ca(OH)_2$	CH_3COOH	HNO_3	NH_4OH
Red Litmus	Blue	No colour change	NO colour	Blue
Blue Litmus	No colour change	Red	Red	No colour
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A. $Ca(OH)_2$ and CH_3COOH

B. CH_3COOH and NH_4OH

C. CH_3COOH and HNO_3

D. $Ca(OH)_2$ and HNO_3

Answer:

14. When vinegar reacts with baking soda the gas evolved is

A. hydrogen

B. oxygen

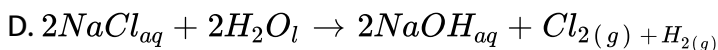
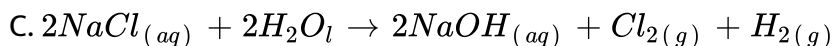
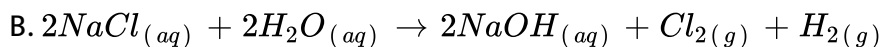
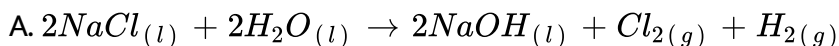
C. Carbon dioxide

D. nitrogen dioxide

Answer:

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15. Identify the correct representation of reaction occurring during chloroalkali process.



Answer:

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16. During the preparation of hydrogen chloride gas on a humid day, the gas is usually passed through the guard tube containing calcium chloride. The role of calcium chloride taken in the guard tube is to

- A. absorb the evolved gas
- B. moisten the gas
- C. absorb moisture from the gas
- D. absorb Cl ions from the evolved gas

Answer:

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17. The aqueous solution of Aluminium Sulphate is

- A. Acidic

B. Basic

C. Amphoteric

D. Both (B) and (C)

Answer:



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18. Plaster of Paris hardens by

A. giving of CO_2

B. changing into $CaCO_3$

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D. giving out water

Answer:



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19. Consider the following statements :

- a. The hydronium ion (H_3O^+) is the strongest acid that can exist in aqueous solution .
- b. Mixing concentrated acid or bases with water is a highly endothermic reaction .

Which of these statement (s) is / are correct ?

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- B. B only
- C. Both A and B
- D. Neither A nor B

Answer:

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20. Consider the following statements :

- a) Hydrogen chloride gas turns red litmus blue .

b) Lactic acid is one of the mineral acids .

c) Milk of Magnesia is a type of milk .

Which of these statement (s) is / are correct ?

A. a and b

B. a and c

C. All are correct

D. All are incorrect

Answer:



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21. Select the odd one out:

A. Glass

B. Cement

C. Plaster

D. Washing Soda

Answer:



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22. If a few drops of a concentrated acid accidentally spills over the hand of a student what should be done ?

- A. Wash the hand with saline solution.
- B. Wash the land immediately with plenty and water and apply a paste of sodium hydrogen carbonate.
- C. After washing with plenty of water apply solution of sodium hydroxide on the hand.
- D. Neutralise the acid with a strong alkali

Answer:



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23. What is correct for following ?

i) Lemon Juice ii) Solution of washing soda iii) Tooth paste iv) Stomach juices v) Vinegar

A. i, iv ,v are acids and ii,iii are bases

B. ii,iii are acids and i, iv,v are bases.

C. i,iii,iv,v are acids and it is in base.

D. i,ii,iii, are acids and iv,v are bases.

Answer:



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24. A man runs towards a mirror with a speed of $15 \text{ m} - \text{s}^{-1}$. What is the speed of his image?

A. $7.5 \text{ m} - \text{s}^{-1}$ `

B. $15m - s^{-1}$

C. $30m - s^{-1}$

D. $45m - s^{-1}$

Answer:



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