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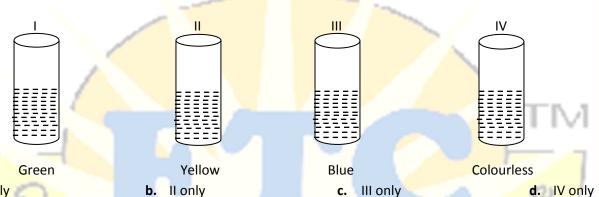
D - 55, East Of Kailash, New Delhi - 110065 PH. 65108494, 65186332

MULTIPLE CHOICE QUESTIONS ASSIGNMENT

ACID, BASES AND SALTS

BY: SANJAY GUPTA

Four test tubes containing solution (i)(ii)(iii)and (iv) are shown below with their colours. ZnSO₄ is contained in



- a. I only
 - Formula of Gypsum is a. $(CaSO_4)_2$. H_2O
 - b. CaSO₄ . 2H₂O
- Which of the following is not a acidic salt?
 - a. CuSO
 - **b.** NH₄CI
- 4. The aqua regia is
- Vucation a. 3HNO₃(conc.) + 1HCl (conc.)
 - **b.** 3HCI (conc.)+ 1HNO₃ (conc.)
 - c. HNO_3 (conc.) + H_2SO_4 (conc.)
 - d. NHO₃(conc.)+ HCI (conc.)
- A solution of NaCl 5.
 - i. Will turn red litmus blue
 - ii. Will turn pH paper green
 - a. (I) and (II)
 - **b.** (I) and (III)

- CaSO₄
- CaSO₄.1/2H₂O
- FeCl₂
- CH₃COONa

- iii. Will turn blue litmus red
- iv. Will not affect litmus
- **c.** (I) and (IV)
- **d.** (II) and (IV)
- Many salts absorbs water form atmosphere. This property is called.
 - a. Deliquescence

b. Efflorescence

| | c. Hydration | d. | addition | | |
|-------------|--|----------|--|--|--|
| 7. | An aqueous solution with pH = 0 is | | | | |
| | a. Strongly acidic | c. | Neutral | | |
| | b. Strongly basic | d. | Weakly acidic | | |
| 8. | CaOCl ₂ will liberate Cl ₂ gas in presence of | | · | | |
| | i. CO ₂ | iii. | СО | | |
| | ii. HCl | iv. | NO | | |
| | a. (i) and (ii) | c. | (i) and (iv) | | |
| | b. (ii) and (iii) | d. | (ii) and (iv) | | |
| 9. | Egg shell is made up of | | | | |
| | a. CaCO₃ b. CaO | c. | Ca(OH) ₂ d. CaCl ₂ | | |
| 10. | Curd cannot be stored in | | · | | |
| | i. Brass vessel ii. Copper vessel iii. Steel | | iv. bronze | | |
| | a. (i), (ii), (iii) | c. | (i), (ii), (iv) | | |
| | b. (ii), (iii), (iv) | | (i), (iii), (iv) | | |
| 11 | | - | | | |
| 11. | | | | | |
| | Na ₂ SO ₄ | | Amphoteric | | |
| | b. Basic | c. d. | Neutral | | |
| 12. | Blue vitriol CuSO ₄ . 5H ₂ O | u. | Neutral | | |
| 12. | Green vitriol | | 1 751 | | |
| | a. Na ₂ SO ₄ · 10H ₂ O | c. | CaSO ₄ . 2H ₂ O | | |
| | b. Na ₂ CO ₃ . 10H ₂ O | d. | FeSO ₄ . 7H ₂ O | | |
| 13. | Substance colour of oH paper | | 1 6354.71125 | | |
| | NaCl solution green | | A 101 | | |
| | Antacid | | /01 | | |
| | a. Orange | c. | Yellow | | |
| | b. Blue | d. | Violet | | |
| 14. | Solid NaOH is | | 120 | | |
| | i. Hygroscopic | iii. | Efflorescent | | |
| | ii. Corrosive | iv. | Amorphous | | |
| | a. (i) and (ii) | c. | (i) and (iv) | | |
| | b. (ii) and (iii) | d. | (ii) and (iv) | | |
| 15. | All metal hydrogen are in water and on heating give | | _, and | | |
| | a. Soluble metal carbonate, CO ₂ and H ₂ O | c. | Soluble metal oxide, CO ₂ and H ₂ O | | |
| | b. Insoluble metal carbonate CO ₂ and H ₂ O | d. | Insoluble metal oxide,CO ₂ and H ₂ O | | |
| 16. | The colour of copper oxide is | | | | |
| | a. Colourless | c. | Black | | |
| | b. Green | d. | Reddish brown | | |
| 17 . | A. all non – metallic oxides dissolve in water of form acid | | | | |
| | B. Mg and Mn react with 5 % HNO_3 to form $H_2(g)$ | | | | |
| | a. Both A and B are true | | A is false B is true | | |
| | b. A is true B is false | d. | A and B are false | | |

- 18. A. N₂O is called laughing gas
 - B. NO₂ is acidic oxide
 - a. A is right and B is wrong
 - **b.** Both A and B are right

- c. A is wrong B is right
- d. Both A and B are wrong

19. .

| Column I | Column II |
|-------------------------------|--|
| A. Bleaching powder | i. Preparation of glass |
| B. Plaster of paris | ii. Production of H ₂ and Cl ₂ |
| C. Washing soda | iii. Manufacture of chalk |
| D. Baking soda | iv. Antacid |
| E. Sodium chloride | v. decolourisation |
| a. A (ii) B(i) C(iv) D(iii) E | c. A (v) B(iii) C(i) D(iv) E(ii) |
| h A (iii) B(ii) C(iv) D(v) E | A A (i) B(ii) C(iii) D(iv) E(v) |

20. .

| Column I | Column II | Column III |
|----------------|---------------------|-----------------------|
| A. Lactic acid | i. CH₃COOH | p. Curd |
| B. Formic acid | ii. HCOOH | q. Ant – sting |
| C. Acetic acid | iii. COOH | r. Guava |
| D. Oxalic acid | | s. vinegar |
| | СООН | |
| | iv. CH₃ — CH — COOH | |
| | | |
| | ОН | A TEAT |

- a. A (iv)p B(ii)q C(i)s D(iii)r
- **b.** A (iii)q B(iii)r C(ii)p D(iv)s

- c. A (ii)r B(iv)s C(iii)q D(i)p
- d. A (i)s B(i)p C(iv)r D(ii)q

21. .

| | <u> </u> | | | A CONTRACTOR OF THE PARTY OF TH | | | | | |
|-----------------------------|----------|--------------------------------------|--|--|---|------------------------------------|--|--|--|
| | | 10 | Column I | No. | | Column II | | | |
| A. H₂S <mark>O₄ (aq)</mark> | | | | i. Turns | red litmus blue | | | | |
| | В. | NaO <mark>H (aq</mark>) | 1 | | | blue litmus red | | | |
| | C. | CuSO ₄ .5H ₂ O | (aq) | | | phenolphthalein pin <mark>k</mark> | | | |
| | D. | NaCO₃(aq) | 1 | | | iv. pH paper becomes red | | | |
| | E. | Na₂CO₃(aq) | - | The same of the sa | | per becomes blue | | | |
| | | | 100 | - | | per becomes green | | | |
| | | | - 43 4003 4 34 43 | | | methl orange yellow | | | |
| | a. | A(ii),(iv) | B(i),(iii)(v <mark>)(vii)</mark> | C (ii) and (iv) | D (i),(iii)(v)(vii) | E (vi) | | | |
| | b. | A(i),(ii) | B(i),(iii)(v)(vi) | C (iii) (iv) | D (ii),(iii)(v) | E (v) | | | |
| | c. | A(iii),(iv) | B(i),(iii)(v)(vi) | C (i) and (ii) | D (i),(ii)(v) | E (iv) | | | |
| | d. | A(iv),(v) | B(i),(ii)(v)(vi) | C (i) and (ii) | D (i),(iv)(v) | E (iii) | | | |
| 22. | | Name | | formula | | | | | |
| | i. | Plaster of pa | ris | | | | | | |
| | ii. | Bleaching po | owder | | | | | | |
| | iii. | Washing soc | la | | | | | | |
| | iv. | Gypsum | | | | | | | |
| | v. | Slaked lime | | | | | | | |
| | vi. | Quick lime | | | | | | | |
| | | a. CaSO | O ₄ . 2H ₂ O, CaOCl ₂ | , Na ₂ CO ₃ , CaSO ₄ .I | H ₂ O, Ca(OH) ₂ , CaO | | | | |

| | c. CaSO ₄ . 1/2H ₂ O, CaOCl ₂ , Na ₂ CO ₃ , CaSO ₄ .2F | H_2O , CaO, Ca(OH) ₂ | |
|-----|--|---|------------------|
| | d. CaSO ₄ . 1/2H ₂ O, CaCl ₂ , Na ₂ CO ₃ , CaSO ₄ , Ca(| (OH) ₂ , CaO. | |
| 23. | Acids, acidic oxide and acidic salts | | |
| | i. Will turn red litmus blue | | |
| | ii. Will turn blue litmus red | | |
| | iii. Will turn pH paper orangish red | | |
| | iv. Will turn pH paper green. | | |
| | a. (i) and (ii) | c. (iii) and (iv) | |
| | b. (ii) and (iii) | d. (i) and (iv) | |
| 24. | A solution turn red litmus blue , its pH is likely to be | | |
| | a. 1 b. 4 | c. 5 | d. 10 |
| 25. | A solution reacts with crushed egg-shelled to give a gas the | h <mark>at</mark> turn lime water milky, the solution c | ontains |
| | a. NaCl | c. LiCl | |
| | b. HCI | d. KCI | |
| 26. | 10 ml of a solution of NaOH is found to be completely ne | utralized by 8 ml of a given solution of H | ICI . if we take |
| | 20 ml of the same solution of NaOH, the amount of HCI s | olut <mark>ion (the same solutio</mark> n as before) re | quired to |
| | neutralize it will be. | | |
| | a. 4 ml | c. 12 ml | |
| | b. 8 ml | d. 16 ml | |
| 27. | Which one of the following types of medicines is used for | or treating indigestion? | |
| | a. Antibiotic | c. Antacid | LIVI |
| | b. Analgesic | d. antiseptic | |
| 28. | What happens when a solution of an acid is mixed with a | solution of a base in a test tube? | |
| | i. The temperature of the solution is increased | | P31 |
| | ii. The temperature of the solution is decreased | | 63 1 |
| | iii. The temperature of the solution is remain the sar | me | 51 |
| | iv. Salt formation takes place | | 01 |
| | a. (i) only | c. (ii) and (iii) | - / |
| | b. (i) and (iii) | d. (i) and (iv) | 1 |
| 29. | An aqueous solution turns red litmus red litmus solution | blue. Excess addition of which addition | of which of the |
| | following solution would reverse the change? | - Million | |
| | a. Baking power | c. Ammonium hydroxide s | olution |
| | b. Lime | d. Hydrochloric acid | |
| 30. | During the preparation of hydrogen chloride gas on a hur | mid day, the gas is usually passed throug | the guard |
| | tube containing calcium chloride. The role of calcium chloride | oride taken in the guard tube is to. | |
| | a. Absorb the evolved gas | c. Absorb moisture from the | _ |
| | b. Moisten the gas | d. Absorb Cl ⁻ ions form the | evolved gas. |
| 31. | Which of the following salt does not contain water of crys | | |
| | a. Blue vitriol | c. Washing soda | |
| | b. Baking soda | d. gypsum | |
| 32. | Sodium carbonate is a basic salt because it is a salt of. | | |
| | Strong acid and strong base | | |
| | | | |

b. CaSO₄.1/2H₂O, CaOCl₂, Na₂CO₃.10H₂O, CaSO₄.2H₂O,Ca(OH)₂, CaO

| | d. Weak | acid and strong b | oase | | |
|-----|---------------------------------|-----------------------------------|--|--------------------------------|--|
| 33. | Calcium phos | phate is present ii | n tooth enamel. Its natur | e is. | |
| | a. Basic | | | С | . Neutral |
| | b. Acidio | ; | | d | . Amphoteric |
| 34. | A sample of so | oil is mixed with v | vater and allowed to sett | le. The clear s | upernatant solution turns the pH paper |
| | yellowish orai | nge. Which of the | following would change | the colour of | this pH paper to greenish-blue? |
| | a. Lemo | n juice | | С | . Common salt |
| | b. Vineg | ar | | d | I. An antacid |
| 35. | Which of the | following gives th | e correct increasing orde | r o <mark>f</mark> acidic stre | ength? |
| | a. Wate | r < acetic acid < H | ydrochloric acid. | С | . Acetic acid < water < hydrochloric acid. |
| | b. Wate | r < hydrochloric a | cid < acetic acid. | d | I. Hydrochloric acid < water < acetic acid. |
| 36. | If a few drops | of a concentrate | d acid accidentally spills o | v <mark>er t</mark> he hand | of a student, what should be done. |
| | a. Wash | the hand with sa | line so <mark>lut</mark> ion | | |
| | b. Wash | the hand immed | iately w <mark>ith plenty of wate</mark> | r and apply a | paste of sodium hydrogen carbonate |
| | c. After | washing with plei | nty of water <mark>apply solutio</mark> | n of <mark>sodium h</mark> | ydroxide on the hand |
| | d. Neutr | alize the a <mark>cid</mark> with | h <mark>a strong</mark> alkali. | | |
| 37. | Sodium hydro | gen carbonate w | h <mark>en added</mark> to acetic acid | evolv <mark>es a ga</mark> s. | Which of the following statement are true |
| | about the gas | evolved? | | | |
| | i. It turr | ns lime wat <mark>er milk</mark> | (y | | A TRY |
| | ii. It exti | inguishes a burnin | ng splinter | | 1 IVI |
| | iii. It diss | olves in a <mark>solutio</mark> r | n of sod <mark>ium hydro</mark> xide | | |
| | iv. It <mark>has</mark> | a pungent odour | | | |
| | a. (i) and | (ii) b | | С | . (ii) (iii) and (iv) |
| | b. (i) <mark>(ii)</mark> | and (iii) | | d | l. (i) and (iv) |
| 38. | Common salt | <mark>bes</mark> ides being use | ed in kitchen can also be u | used as the ra | w material for making. |
| | i. Wash | ing soda | | ii | i. Baking soda |
| | ii. Bleac | hin <mark>g powder</mark> | | iv | v. slaked lime |
| | a. (i) and | (ii) k | to the | С | . (i) and (iii) |
| | b. (i) (ii) | and (iv) | 01. | d | l. (i) (iii) and (iv) |
| 39. | One of the co | nstituents of baki | <mark>ng powde</mark> r is sodium hyd | rogen carbon | <mark>ate, the ot</mark> her constituent is. |
| | a. Hydro | ochloric acid | - ALLO | С | . Acetic acid |
| | b. Tarta | ric acid | | d | . Sulphuric acid |
| 40. | To protect too | oth decay we are | advised to brash our teet | h regularly. Th | ne nature of the tooth paste commonly |
| | used is | | | | |
| | a. Acidio | С | | c. | Basic |
| | b. Neut | ral | | d. | Corrosive |
| 41. | Which of the | following stateme | ent is correct about an aq | ueous solutio | n of an acid and of a base? |
| | i. Highe | r the pH, stronge | r the acid | | |
| | ii. Highe | r the pH, weaker | the acid | | |
| | iii. Lowe | r the pH, stronger | the base | | |
| | iv. Lowe | r the pH, weaker t | the base | | |
| | | | | | |

b. Weak acid and weak base c. Strong acid and weak base

- a. (i) and (ii)
- b. (ii) and (iii)

- c. (i) and (iv)
- d. (ii) and (iv)
- 42. The pH of the gastric juices released during digestion is
 - a. Less than 7

c. Equal to 7

b. More than 7

- d. Equal to 0
- 43. Which of the following phenomena occur, when a small amount of acid is added to water?
 - i. Ionization

iii. Dilution

ii. Neutralization

iv. Salt formation

a. (i) and (ii)

c. (ii) and (iii)

b. (i) and (iii)

- d. (ii) and (iv)
- 44. Which of the following can be used as an acid base indicator by a visually impared (blind) student?
 - a. Litmus

c. Vanilla essence

b. Turmeric

- **d.** Petunia leaves
- 45. Which of the following substance will not give carbon dioxide on treatment with dilute acid?
 - a. Marble

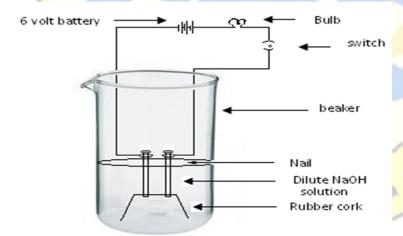
c. Baking soda

b. Limestone

d. Lime

- **46.** Which of the following is acidic in nature?
 - a. Lime juice
 - **b.** Human blood

- c. Lime water
- **d.** Antacid
- 47. In an attempt to demonstrate electronically conductivity through an electrolyte, the following apparatus was set up.



Which among the following statement (s) is (are) correct?

- i. Bulb will not glow because electrolyte is not acidic
- ii. Bulb will glow because NaOH is a strong base and furnishes ions for conduction.
- iii. Bulb will not glow because circuit is incomplete
- iv. Bulb will not glow because it depend upon the type of electrolytic solution.
- **a.** (i) and (ii)

c. (ii) only

b. (ii) and (iv)

- d. (iv)only
- **48.** Which of the following used for dissolution of gold?
 - a. Hydrochloric acid

b. Sulphuric acid

- c. Nitric acid
- 49. Which of the following is not mineral acid?
 - a. Hydrochloride acid
 - b. Citric acid

- **50.** Which among the following in not a base.
 - a. NaOH
 - **b.** KOH

c. NH₄OH

d. Aqua regia

d. Nitric acid

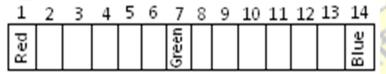
c. Sulphuric acid

d. C₂H₅OH

- 51. Which of the following statement is not correct?
 - **a.** All metal carbonates react with acid to give salt , water and carbon dioxide.
 - b. All metal oxides react with water to give salt and acid
 - c. Some metals react with acids to give salt and hydrogen.
 - d. Some react with water to form an acid
- 52. Match the chemical substances given in column (A) with their appropriate application given in column (B).

| Column A | Column B |
|---------------------|--|
| A. Bleaching powder | i. Preparation of glass |
| B. Baking soda | ii. Production of H ₂ and Cl ₂ |
| C. Washing soda | iii. Decolourisation |
| D. Sodium chloride | iv. Antacid |

- a. A (ii) B (i) C (iv) D (iii)
- **b.** A (iii) B (ii) C (iv) D (i)
- c. A (iii) B (iv) C (i) D (ii)
- **d.** A (ii) B (iv) C (i) D (iii)
- of the resulting solution is checked with a pH paper. What would be the colour obtained? (you may use colour guide given in fig.)



a. Red

c. Yellowish green

b. Yellow

- **d.** Blue
- **54.** Which of the followings is (are) true when HCI (g) is passed through water?
 - i. It does not ionize in the solution as it is a covalent compound
 - ii. It ionizes in the solution
 - iii. It gives both hydrogen and hydroxyl ion in the solution
 - iv. It forms hydronium ion in the solution due to the combination of hydrogen ion with water molecule.
 - a. (i) only

c. (ii) and (iv)

b. (iii) only

- **d.** (iii) and (iv)
- **55.** Which of the following statement is true for acids?
 - a. Bitter and change red litmus to blue

| h | Sour and | change | red lit | mus to | hlue |
|----|-----------|--------|---------|-----------|------|
| υ. | Soul allu | CHAIRE | reu iii | .iiius to | blue |

56. Which of the following are present in a dilute aqueous so lution of hydrochloric acid?

a.
$$H_3O^+ + CI^-$$

b.
$$H_3O^+ + OH^-$$

d. Unionized HCI

57. Identify the correct representation of reaction occurring during chloralkali process

a.
$$2NaCI(I) + 2H_2O(I) \rightarrow 2NaOH(I) + CI_2(g) + H_2(g)$$

b.
$$2NaCl(aq) + 2H_2O(aq) \rightarrow 2NaOH(aq) + Cl_2(g) + H_2(g)$$

c.
$$2NaCl(aq) + 2H_2O(I) \rightarrow 2NaOH(aq) + Cl_2(aq) + H_2(aq)$$

d.
$$2NaCl(aq) + 2H_2O(I) \rightarrow 2NaOH (aq) + Cl_2(g) + H_2(g)$$

58. The correct formula of washing soda is

c) $Na_2CO_3.9H_2O$

d) Na₂CO₃.10H₂O

59. Aqueous solution of which of the following salts turns the red litmus blue?

c) $Na_2CO_3.10H_2O$

d) all

60. if tartaric acid is not added in banking power, the cake will taste bitter due to the presence of

c) sodium carbonate

b) carbon dioxide

d) all of these

61. soda acid fire extinguisher extinguishes the fire

c) by raising the ignition temperature

b) by removing the combustible substance

d) none of these

62. the simplest formula of bleaching powder is

a)
$$Ca(OCl_2)$$

c) CaOCl₂ x H₂O

b) CaOCl₂

d) $Ca(OCl_2) \times 2H_2O$

ith a di

63. The substance, which on treating with chlorine, yields bleaching powder is

a) Quick time

c) Limestone

b) Slaked time

d) gypsum

64. the dead burnt plaster is

b) CaSO₄ x
$$\frac{1}{2}$$
 H₂O

c) CaSO₄

65. Bleaching powder is soluble in cold water giving a milky solution due to

- a) Available chlorine
- **b)** Lime present in it
- c) Calcium carbonate formation
- d) The absorption of carbon dioxide from atmosphere

66. In which of the following pair, both the substances are chemically same?

c) Alumina and gypsum

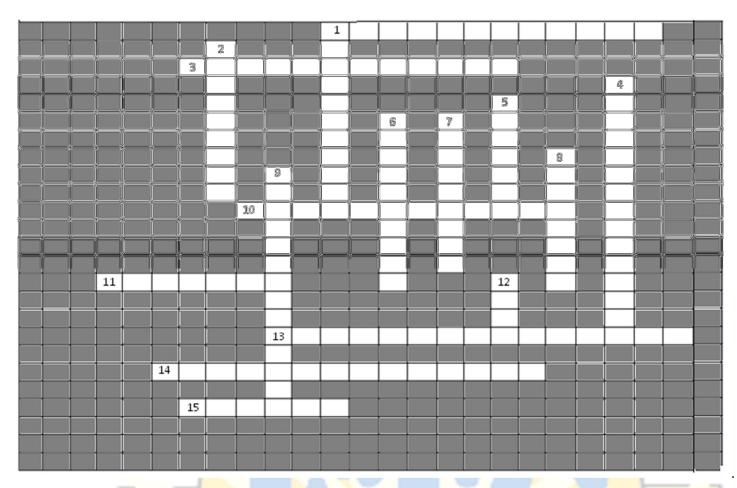
b) Dead burnt plaster and gypsum

d) Gypsum and Plaster of Paris

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| 67. A soluti | on turns red litmus blue, the | e pH is likely to be | | | | | |
|----------------------|---|---|--------------|------------------------------|----------|--------|--|
| a) | 1 | b) 4 | c) | 5 | d) | 10 | |
| 68. A soluti | on reacts with crushed egg- | shells to give a gas that tu | rns lime wa | ater milky? | | | |
| a) | NaCl | b) HCl | c) | LiCl | d) | KCl | |
| 69. 10 ml o | f a solution of NaOH is found | d to be completely neutral | lized by 8 r | nl. of a given solution of H | Cl. If w | e take | |
| 20 ml o | f the same solution of NaOH | H, the amount of HCl soluti | ion (the sar | me solution as before) requ | uired t | to | |
| neutrali | ize will be | | | | | | |
| a) | 4 ml | b) 8 ml | c) | 12 ml | d) | 16 ml | |
| 70. Which o | one of the following types of | f medicines is used for trea | ating indige | estion? | | | |
| a) | Antibiotic | | c) | Antacid | | | |
| b) | Analgesic | | d) | antiseptic | | | |
| 71. Which o | of the following gases is evol | lved when baking soda <mark>re</mark> a | acts with ar | n acid? | | | |
| a) | H ₂ | b) O ₂ | c) | CO ₂ | d) | Ch_4 | |
| 72. Which o | of the following is not an aci | dic salt? | | | | | |
| a) | Baking soda | | c) | Copper sulphate | | | |
| b) | Ammonium chloride | | d) | Ammonium nitrate | | | |
| 73. Which o | of the following is incorrectly | y matched? | | | | | |
| | Acid Sou | urce | | | | | |
| a) | Tartaric acid tan | marind | | | | | |
| b) | Ascorbic acid ora | ange | | | | | |
| c) | Citric acid lem | non | | 1 | - | W 1 | |
| d) | Oxalic acid ton | nato | | | | IVI | |
| 74. The acid | d having a highe <mark>st H⁺</mark> ion cor | nce <mark>ntration is</mark> one with | | | | | |
| a) | pH = 7.0 | | c) | pH = 2.3 | | | |
| b) | pH = 1.2 | | d) | pH = 8.2 | 17 | | |
| 75. Aqueou | is s <mark>olution of whi</mark> ch of the fo | ollowing turns blue litmus i | red? | | | | |
| a) | NaNO ₃ | | c) | NH₄OH | 1 | | |
| b) | CuSO ₄ | | d) | CH₃COONa | | 1 | |
| | 131 | | | 100 | | | |
| 76. An elem | nent commo <mark>n to all acids is?</mark> | | | 1180 | 1 | | |
| a) | Chlorine | Y. The | c) | Oxygen | | | |
| b) | Nitrogen | Ocation | d) | Hydrogen | | | |
| 77. Bases o | n ionization release | ~ unon | MAI | The second | | | |
| a) | Hydrogen ions | | c) | Chlorine ions | | | |
| b) | Sodium ions | | d) | Hydroxide ions | | | |
| 78. In general, salt | | | | | | | |
| a) | Are ionic compounds | | c) | Contain hydroxide ions | | | |
| b) | Contain hydrogen ions | | d) | Turn litmus red | | | |
| 79. When a | queous solution of an acid a | and base are mixed. | | | | | |
| a) | No reaction occurs | | | | | | |
| b) | A new acid and a new base | are formed | | | | | |
| c) | A salt and water is formed | | | | | | |
| d) | An acid and a salt is formed | d | | | | | |

| 80. When | magnesium and nydrochione acid react, they produce | | | | | | |
|---|---|-------|--|--|--|--|--|
| a) | Oxygen and magnesium chloride | c) | Hydrogen and magnesium chloride | | | | |
| b) | Chlorine and magnesium oxide | d) | Hydrogen and magnesium oxide | | | | |
| 81. When HCI (aq) is exactly neutralized by NaOH (aq), the hydrogen ion concentration in the resulting mixture is. | | | | | | | |
| a) | Always less than the concentration of the hydroxide ions | | | | | | |
| b) | Always greater then the concentration of hydroxide ions | | | | | | |
| c) | Always equal to the concentration of the hydroxide ions | | | | | | |
| d) | Sometimes greater and sometimes less than the concentra | ation | of the hydroxide ions. | | | | |
| 82. A com | mon substance that contains acetic acid is | | | | | | |
| a) | Vinegar | c) | Salad oil | | | | |
| b) | Ammonia water | d) | Soap | | | | |
| 83. A base | use in the manufacture of soap is | | | | | | |
| a) | Calcium hydroxide | c) | Ammonium hydroxide | | | | |
| b) | Sodium hydroxide | d) | Zinc hydroxide | | | | |
| 84. Which | of the following solution will turn phenolphthalein pink? | | | | | | |
| a) | HCI (aq) | c) | K <mark>O</mark> H(aq) | | | | |
| b) | CO₂(aq) | d) | CH₃OH(aq) | | | | |
| 85. Fruit ju | uices, such as orange juice <mark>contain.</mark> | | | | | | |
| a) | Boric acid | c) | Sulphuric acid | | | | |
| b) | Citric acid | d) | Nitric acid | | | | |
| 86. When | dissolved in water, salts | | ATRA | | | | |
| a) | Are non-electrolytes | c) | Are electorates | | | | |
| b) | Have a bitter t <mark>aste</mark> | d) | Release hydrogen ions | | | | |
| 87. A base | ca <mark>n be prepared by the</mark> reaction between | | | | | | |
| a) | A <mark>n active non metal an</mark> d water | c) | A sulphide and water | | | | |
| b) | A g <mark>as and water</mark> | d) | An active metal and water | | | | |
| 88. Of the | following the property that most, closely relates to acid is | | | | | | |
| a) | A bitte <mark>r ta</mark> ste | c) | Sour taste | | | | |
| b) | Contains the hydroxide ion | d) | Salty taste | | | | |
| 89. A solu | tion turns red <mark>litmus to blue its pH is likely to be</mark> | | 130 | | | | |
| a) | 2 | c) | 7 0 | | | | |
| b) | 5 | d) | 10 | | | | |
| 90. Which | of the following represents a base? | ** | The state of the s | | | | |
| a) | КОН | c) | CH₃OH | | | | |
| b) | KCI | d) | CH₃COOH | | | | |
| 91. | | | | | | | |
| | | | | | | | |
| | | | | | | | |



Down

- 1. Name of the process of electrolysis of aqueous sodium chloride (2 words)
- 2. Change in colour of litmus in basic medium (3 words)

Across

- point (2 words)

 result acidic medium (3 words)

 sused when an active metal reacts with an acid

 9. Common name of calcium sulphate herruhy drate (3 words)

 12. Acids and bases react to produce water and —

 ross

 1. Gas released when a metal carbonate react

 3. This indicator gives reddish = 1

 10. Mixture of 1 10. Mixture of sodium hydrogen carbonate and tartaric acid to make cakes (2 words)
 - 11. Cornrnon name of dilute solution of acetic acid
 - 13. This indicator gives magenta pink colour in alkaline solution
 - **14.** Acids and bases react to give _____ reaction.
 - **15.** Plaster of paris is obtained by heating.