



CHEMISTRY

BOOKS - SRS PUBLICATION

NATURE OF SUBSTANCES

Question Bank

1. Fill in the Blank.

Taste of an acid is



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2. Fill in the Blank.

The pH of a substance is 0. It indicates that the substance isin

nature.

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3. Fill in the Blank.

Blue litmus paper turns.....colour in tamarind solution.

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4. Fill in the Blank.

The nature of an antacid is.....

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5. Fill in the Blank.

Acid + base \rightarrow +

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6. Choose the correct Answer

Colour of turmeric solution in acids

A. Blue

B. Red

C. Purple

D. No change

Answer: B



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7. Choose the correct Answer

Example to an acid

A. Vinegar

B. Baking soda

C. Caustic soda

D. None

Answer: A



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8. Choose the correct Answer

Main component of soap is.....

A. an acid

B. a base

C. a & b

D. None

Answer: B

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9. If you heat baking soda, which gas is released?

- A. Hydrogen
- B. Oxygen
- C. Carbon dioxide
- D. Sulphur dioxide

Answer: C

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10. Choose the correct Answer

To treat acidic nature of the soil, farmers add.....to agricultural fields.

- A. Lemon juice

B. Calcium oxide

C. Sodium chloride

D. Sulphur dioxide

Answer: B

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11. Matching

A) Battery	(3)	1. Preservation
B) Soap	(4)	2. Calcium carbonate
C) Acetic acid	(1)	3. Sulphuric acid
D) Hibiscus	(6)	4. Synthetic indicator
E) Egg shell	(2)	5. Sodium hydroxide
		6. Natural indicator

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12. Write the differences between acids and bases.

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13. Answer the following question

Give examples to different types of acid and base indicators.

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14. Answer the following question

One substance is slippery to touch and bitter in taste, another substance is sour in taste. If you add both, which substances will form ?

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15. Answer the following question

Guess, how do you test acetic acid, if there is no availability of indicators ?

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16. Answer the following question

Anitha's mother filled mango pickle in a ceramic jar and stored it. So many doubts arose in mind. What would be those doubts ?

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17. What are the substances required to perform a neutralization reaction ?

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18. Answer the following question

Draw a neat diagram of arrangement of apparatus to conduct an activity that acid reacts with metal and liberates hydrogen gas,

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19. Answer the following question

How do you appreciate the role of bases in helping of the persons suffering from acidity problems ?

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20. Answer the following question

What measures do you follow to prevent acid rains ?

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21. ONE WORD ANSWER QUESTION

Write the word equation for acid reacts with metals and produce hydrogen gas.

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22. ONE WORD ANSWER QUESTION

What is the use of tannic acid ?

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23. What is the range of a pH scale?

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24. ONE WORD ANSWER QUESTION

What are the two main synthetic indicators used in laboratory ?

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25. ONE WORD ANSWER QUESTION

Write some examples of alkalis ?

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26. ONE WORD ANSWER QUESTION

What is the physical property of a base ?

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27.acid present in apples.

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28. ONE WORD ANSWER QUESTION

What are the pH values of acids and bases ?

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29. What is a neutralization reaction? Give two examples

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30. ONE WORD ANSWER QUESTION

Write different types of indicators.

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31. What are alkalis ?

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32. ONE WORD ANSWER QUESTION

Name few synthetic acids.

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33. What is the chemical name of Vitamin-C ?

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34. Sodium hydroxide solution is used in testing _____

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35. Which gas makes a pop sound if exposed to lighted matchstick?

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36. Write any one of the natural indicators.

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37. ONE WORD ANSWER QUESTION

What is a neutral substance ?

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38. ONE WORD ANSWER QUESTION

What are the main components in the tooth paste ?

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39. ONE WORD ANSWER QUESTION

Which chemical is used in batteries ?

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40. The acid which gives sour taste to pickles is

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41. YES/NO QUESTION

Methyl orange turns blue in acids and green in bases

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42. YES/NO QUESTION

Hydrogen gas puts out the lighting matchstick.

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43. YES/NO QUESTION

When an ant bites, it injects formic acid into the skin

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44. YES/NO QUESTION

Water pollution is a major cause of acid rains

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45. YES/NO QUESTION

Soap is a salt with acidic nature.

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46. YES/NO QUESTION

Natural acids are weak acids

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47. The colour of phenolphthalein indicator in basic solution is

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48. Sulphuric acid can be used as:

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49. The milk of magnesia used as an antacid is chemically

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50. Ammonium Hydroxide is used in _____ cleaning.

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51. SEQUENCE

Stomach + ? → Digestion of food.

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52. Balance the chemical equation by including the physical states of the substances for the following reactions.

b) Sodium hydroxide reacts with hydrochloric acid to produce sodium chloride and water.

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53. SEQUENCE

Natural indicator \rightarrow Synthetic indicator \rightarrow ? \rightarrow Universal indicator

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54. Write the balanced chemical reaction for the following and identify the type of reaction in each case.

B)

Zinc_(s) + Hydrochloric acid_(aq) \rightarrow Zinc chloride_(aq) + Hydrogen_(g)

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55. Name the given reaction.

Base+Acid \rightarrow Salt+Water

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56. SEQUENCE

Lemon → Acid → ?



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57. The taste of acids is

A. sour

B. sweet

C. spicy

D. bitter

Answer: A



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58. The colour of methyl orange indicator in acidic medium is

- A. Blue
- B. Yellow
- C. Red
- D. Pink

Answer: B



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59. MULTIPLE CHOICE QUESTION

Which of the following is an olfactory indicator ? ()

- A. Blue litmus
- B. Phenolphthalein
- C. Onion

D. Universal indicator

Answer: C

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60. MULTIPLE CHOICE QUESTION

..... is an example of natural acid. ()

- A. Formic acid
- B. Nitric acid
- C. Sulphuric acid
- D. Hydrochloric acid

Answer: A

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61. The substances that are soapy to touch

- A. rough
- B. hot
- C. slippery
- D. cool

Answer: A

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62. The substance that turns red litmus to blue are.....in nature.

- A. Acids
- B. Bases
- C. Neutral salt
- D. Water

Answer: B

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63. Colour of methyl orange in alkali conditions

- A. Pink
- B. Yellow
- C. colourless
- D. Red

Answer: D

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64. MULTIPLE CHOICE QUESTION

.....gives pink colour with basic solution.

- A. Methyl orange
- B. Phenolphthalein
- C. Olfactory indicator
- D. Blue litmus

Answer: B



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65. MULTIPLE CHOICE QUESTION

.....is not a mineral acid. ()

- A. Hydrochloric acid
- B. Sulphuric acid
- C. Nitric Acid
- D. Formic acid

Answer: D

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66. Bases which are soluble in water are called as?

- A. Alkalis
- B. Mineral bases
- C. Strong bases
- D. Natural bases

Answer: A

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67. MULTIPLE CHOICE QUESTION

An indicator prepared from artificial sources is known as....

A. Olfactory indicator

B. Natural indicator

C. Universal indicator

D. Synthetic indicator

Answer: D



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68. MULTIPLE CHOICE QUESTION

Substances which change their smell when mixed with acid or base are known as.....indicators.

A. Olfactory

B. Natural

C. Synthetic

D. Universal

Answer: A

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69. MULTIPLE CHOICE QUESTION

pH of.....is less than 7.

- A. bases
- B. acids
- C. neutral substance
- D. none

Answer: B

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70. pH for base is more than

A. bases

B. acids

C. neutral substance

D. none

Answer: A



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71. What is the pH of a neutral solution ?

A. > 7

B. < 7

C. 7

D. 0

Answer: C



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72. The range of time scale is of the order of

A. 0,7

B. 7, 14

C. 0, 14

D. 14, 0

Answer: C



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73. FILL IN THE BLANK

.....are slippery in touch.



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74. Write the chemical formulae of the following: slaked lime

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75. The taste of acids is

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76. Blue litmus turns red in

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77. Soap contains ____

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78. Bases tend to taste and feel

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79. FILL IN THE BLANK

Substances which are neither acidic nor basic are called....

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80. FILL IN THE BLANK

pH scale is used to test for the

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81. FILL IN THE BLANK

....are used to test the nature of substances.



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82. Name the given reaction.

Base+Acid \rightarrow Salt+Water

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83. The Latin word for acid is-

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84.acid present in apples.

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85. FILL IN THE BLANK

.....acid is used in batteries.

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86. Bases which are soluble in water are called as?

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87. MATCH THE FOLLOWING

Group - A

Group - B

- | | | |
|-------------|-------|------------------|
| 1. Lemon | (c) | a) Oxalic acid |
| 2. Vinegar | (e) | b) Tartaric acid |
| 3. Milk | (d) | c) Citric acid |
| 4. Tomato | (a) | d) Lactic acid |
| 5. Tamarind | (b) | e) Acetic acid |
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88. What is the range of pH values ?

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89. Turmeric stains on white clothes, when washed with soap, turn red. Why?

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90. What is neutralization? Give examples.

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91. What are indicators? Give examples.



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92. Can flowers and turmeric papers also be called as indicators. Why?

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93. What is injected into the patient's body for determining the cause of allergy?

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94. What are neutral salts ? Give examples.

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95. Why are acids not stored in a metal container?

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96. Give examples of natural acids and mineral acids.

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97. What is acid rain? How is it formed?

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98. What are acid rains? How are they formed? Write the effects of acid rain.

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99. A balloon is filled with hydrogen at room temperature. It will burst if pressure exceeds 0.2 bar, If at 1 bar pressure the gas occupies 2.27 L volume, upto what volume can the balloon be expanded?

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100. Write some occasions that are linked with usage of acids and bases in our daily life.

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101. Write some occasions that are linked with usage of acids and bases in our daily life.

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102. Padma took a little sodium hydroxide in a beaker and dipped a red litmus paper into it. She observed red litmus paper turned blue. She took dilute hydrochloric acid in the same beaker and dipped a blue litmus paper into it. The blue litmus paper did not turn red. Why?

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103. What is the measure of strength of an acid and base?

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104. What happens when a metal spring dissolves in an acid?

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105. The separation technique to separate sodium chloride from its solution in water is

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106. What is the effect of basic substances on turmeric paper?

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107. Acidic, basic and neutral solutions are given in three test and you are given a strip of red litmus. How will you identify the three solutions?

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108. Name the required substances to perform a neutralization reaction in your lab?

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109. We know that some fruits contain acids. List out some fruits and the acids present in them.

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110. The sting of a wasp is basic. How can we treat the sting of a wasp?

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111. If soil becomes acidic. Why lime is added to soil?

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112. Why are industrial wastes neutralised before releasing into water?

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113. How do you feel about nature? It is a big natural laboratory that contains innumerable indicators.

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114. How do Hydrangea plants help us to find the nature of the soil ?

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115. How is acidity caused ? What is the remedy for it ?

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