

CHEMISTRY

BOOKS - SRS PUBLICATION

NATURE OF SUBSTANCES

Question Bank

1. Fill in the Blank.

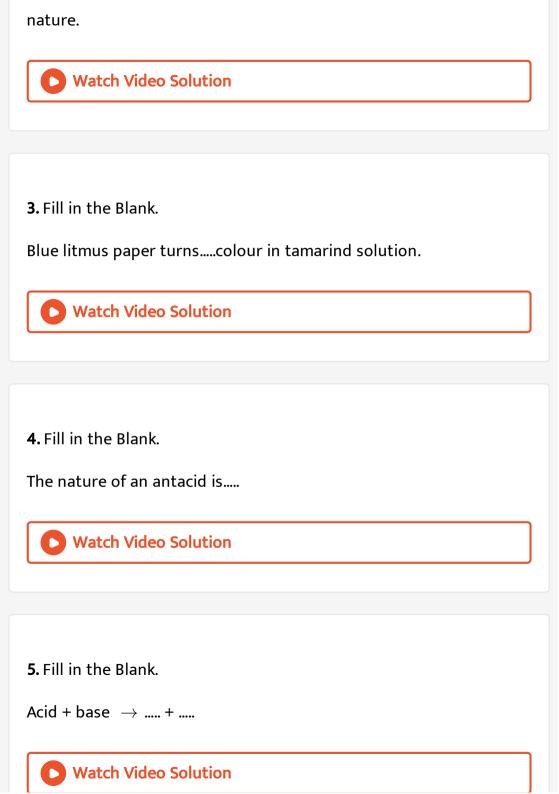
Taste of an acid is



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2. Fill in the Blank.

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



6. Choose the correct Answer Colour of turmeric solution in acids A. Blue B. Red C. Purple D. No change **Answer: B Watch Video Solution** 7. Choose the correct Answer Example to an acid A. Vinegar

B. Baking soda C. Caustic soda D. None **Answer: A Watch Video Solution** 8. Choose the correct Answer Main component of soap is..... A. an acid B. a base C. a & b D. None **Answer: B**

9. If you heat baking soda, which	n gas is released?
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- 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
- B) Soap C) Acetic acid
- D) Hibiscus
- (3) 1. Preservation
 (4) 2. Calcium carbonate
 (1) 3. Sulphuric acid
 (6) 4. Synthetic indicator
 (2) 5. Sodium hydroxide Egg shell
 - 6. Natural indicator



12. Write the differences between acids and bases.



Match Video Calution

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13. Answer the following question

Give examples to different types of acid and base indicators.



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?

15. Answer the following question

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



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?



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



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,



19. Answer the following question

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



20. Answer the following question

What measures do you follow to prevent acid rains?

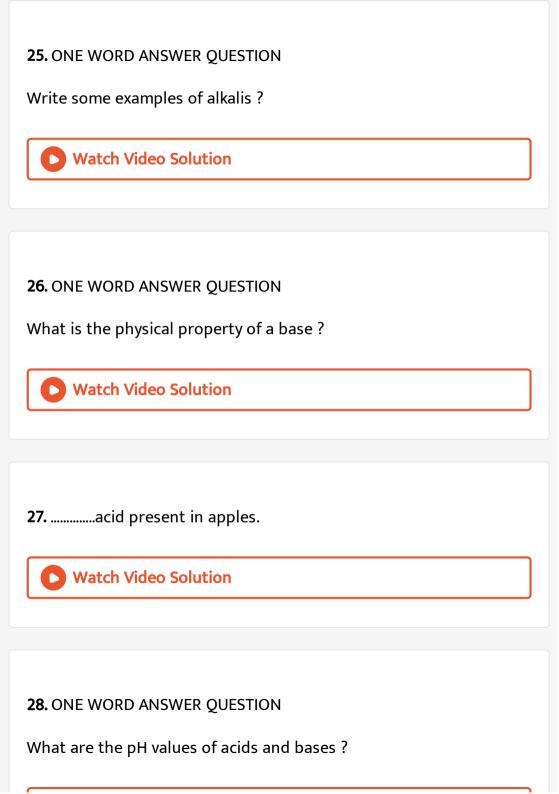


21. ONE WORD ANSWER QUESTION

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



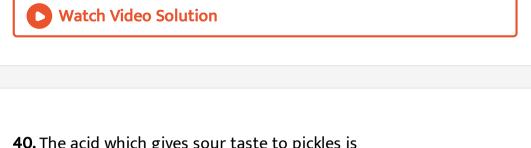
Water video solution
22 ONE WORD ANSWED OLIESTION
22. ONE WORD ANSWER QUESTION
What is the use of tannic acid ?
Watch Video Solution
23. What is the range of a pH scale?
25. What is the range of a priscale.
Watch Video Solution
Water video Soldtion
24. ONE WORD ANSWER QUESTION
What are the two main synthetic indicators used in laboratory?
Watch Video Solution



Watch Video Solution
29. What is a neutralization reaction? Give two examples
Watch Video Solution
30. ONE WORD ANSWER QUESTION
Write different types of indicators.
Watch Video Solution
31. What are alkalis ?
Watch Video Solution

32. ONE WORD ANSWER QUESTION
Name few synthetic acids.
Watch Video Solution
33. What is the chemical name of Vitamin-C ?
Watch Video Solution
34. Sodium hydroxide solution is used in testing
Watch Video Solution
35. Which ga makes a pop sound if exposed to lighted matchstick?
Watch Video Solution

36. Write any one of the natural indicators.
Watch Video Solution
37. ONE WORD ANSWER QUESTION
What is a neutral substance ?
Watch Video Solution
38. ONE WORD ANSWER QUESTION
What are the main components in the tooth paste?
Watch Video Solution
39. ONE WORD ANSWER QUESTION
Which chemical is used in batteries ?



40. The acid which gives sour taste to pickles is



41. YES/NO QUESTION

Methyl orange turns blue in acids and green in bases



42. YES/NO QUESTION

Hydrogen gas puts out the lighting matchstick.



43. YES/NO QUESTION

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



44. YES/NO QUESTION

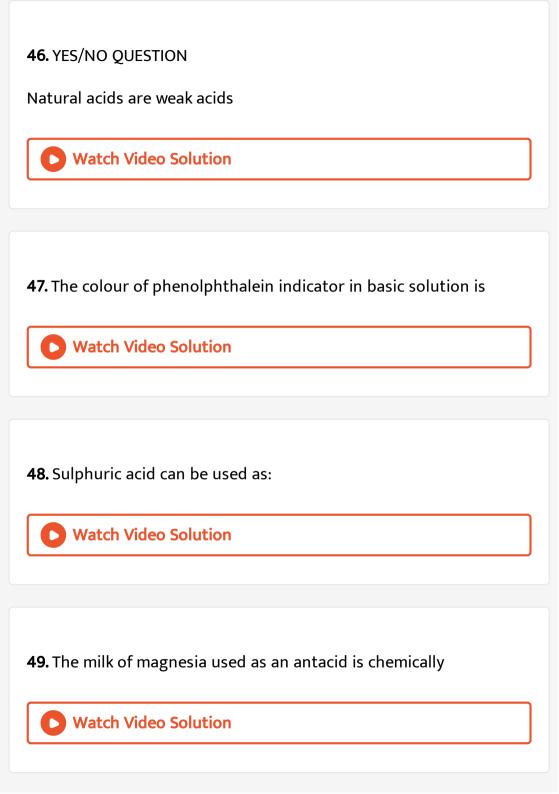
Water pollution is a major cause of acid rains



45. YES/NO QUESTION

Soap is a salt with acidic nature.





50. Ammonium Hydroxide is used in cleaning.
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51. SEQUENCE
Stomach +? \rightarrow 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.

53. SEQUENCE

Natural indicator o Synthetic indicator o ? o Universal indicator



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

 $\operatorname{Zinc}_{(s)} + \operatorname{Hydrochloric} \operatorname{acid}_{(aq)} \to \operatorname{Zinc} \operatorname{chloride}_{(aq)} + \operatorname{Hydrogen}_{(g)}$

B)



55. Name the given reaction.

 $\mathsf{Base} \mathsf{+} \mathsf{Acid} \to \mathsf{Salt} \mathsf{+} \mathsf{Water}$



56. SEQUENCE

Lemon \rightarrow Acid \rightarrow ?



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57. The taste of acids is

A. sour

B. sweet

C. spicy

D. bitter

Answer: A



58. The colour of methyl orange indicator in acidic medium is
A. Blue
B. Yellow
C. Red
D. Pink
Answer: B
Watch Video Solution
Watch Video Solution
59. MULTIPLE CHOICE QUESTION Which of the following is an olfactory indicator ? ()
59. MULTIPLE CHOICE QUESTION
59. MULTIPLE CHOICE QUESTION Which of the following is an olfactory indicator ? ()

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



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 arein nature.
A. Acids
B. Bases
C. Neutral salt

Answer: B Watch Video Solution 63. Colour of methyl orange in alkali conditions A. Pink B. Yellow C. colourless D. Red **Answer: D Watch Video Solution 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



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 Watch Video Solution 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



69. MULTIPLE CHOICE QUESTION

pH of....is less than 7.

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

Answer: B



A. bases B. acids C. neutral substance D. none Answer: A **Watch Video Solution 71.** What is the pH of a neutral solution? A. > 7B. < 7C. 7 D. 0 **Answer: C**



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



73. FILL IN THE BLANK

....are slippery in touch.



74. Write the chemical formulae of the following: slaked lime
Watch Video Solution
75. The taste of acids is
Watch Video Solution
76. Blue litmus turns red in
Watch Video Solution
77. Soap contains
Watch Video Solution

78. Bases tend to taste and feel
Watch Video Solution
79. FILL IN THE BLANK
Substances which are neither acidic nor basic are called
Watch Video Solution
80. FILL IN THE BLANK
pH scale is used to test for the
Watch Video Solution
81. FILL IN THE BLANK
are used to test the nature of substances.

Watch Video Solution
82. Name the given reaction.
on reaction.
$Base \texttt{+} Acid \to Salt \texttt{+} Water$
Watch Video Solution
Water video solution
83. The Latin word for acid is-
Watch Video Solution
94 acid present in apples
84acid present in apples.
Watch Video Solution

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

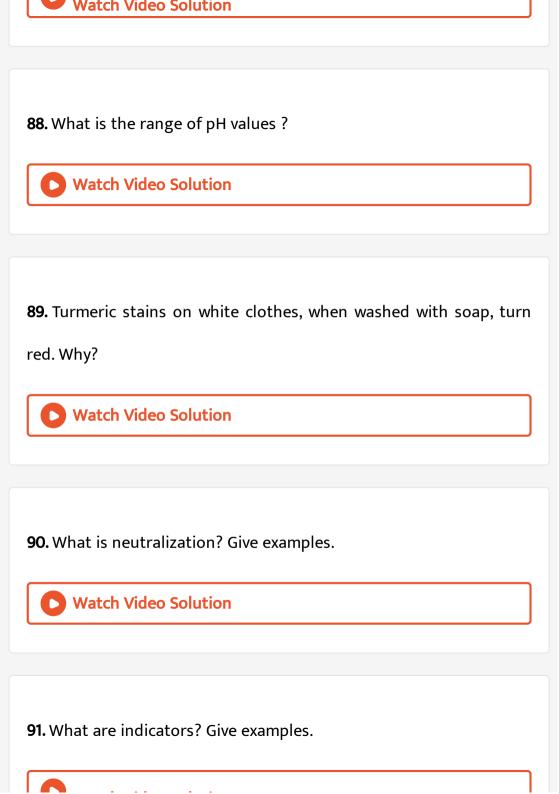
67. MAICH THE LOCEOWING

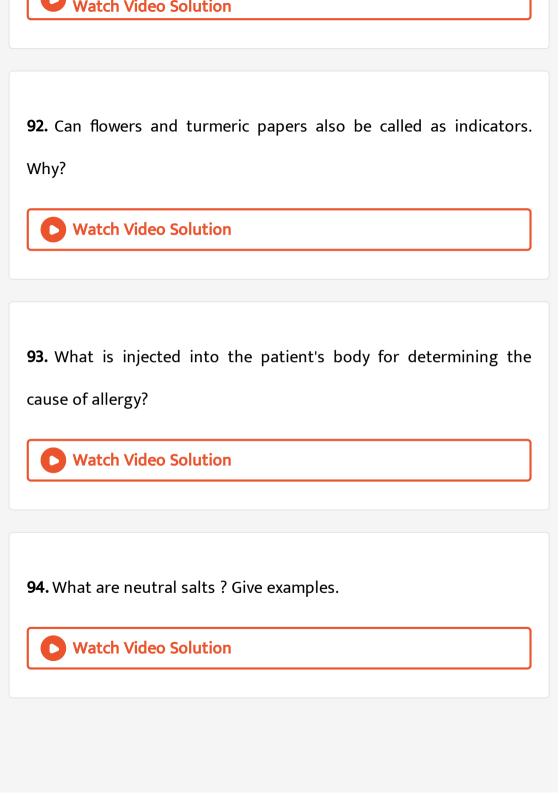
Group -'A

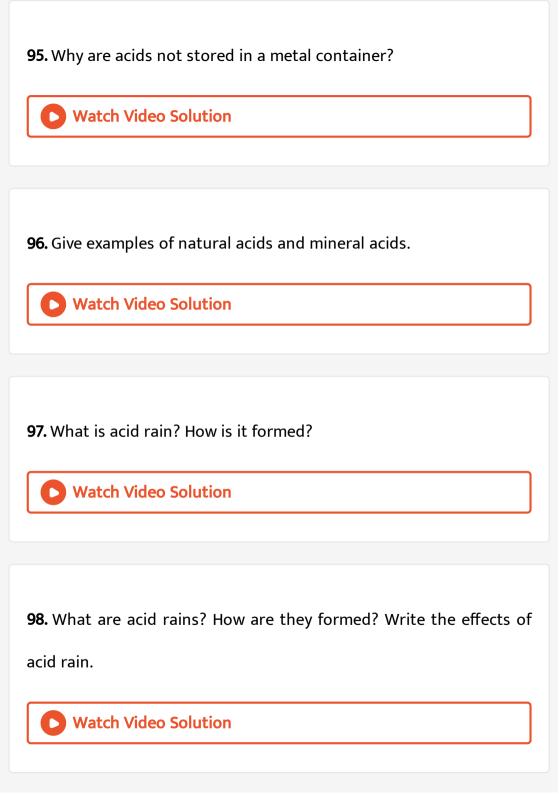
1. Lemon (c) a) Oxalic acid

Group - B

- 2. Vinegar (e) b) Tartaric acid
- Milk (d) c) Citric acid
- 4. Tomato (a)d)Lactic acid
- Tamarind (b) e) Acetic acid







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?



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



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



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?



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



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



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



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



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?



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.



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



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



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



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



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



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

