



Name of the Bundle	Advanced Bundle V1	Subject	Competitive Exams Training (Science)
Topic	Acids, Bases and Salts	Last updated on	07 August 2024

1) The substance having the largest concentration in acid rain?

- a) H_2CO_3
- b) HNO_3
- c) H_2SO_4
- d) NaCl

Ans: c) H_2SO_4

2) Which of the following values represents the pH of an acidic solution?

- a) 9
- b) 2
- c) 8
- d) None of the above

Ans: b) 2

3) Which one of the following can be used as an acid- base indicator by a visually impaired student?

- a) Litmus
- b) Turmeric
- c) Vanilla essence
- d) None of the above

Ans: c) Vanilla essence

4) Which of the following acids is found in the Nettle plant?

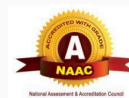
- a) Methanoic acid
- b) Citric Acid
- c) Ethanoic Acid
- d) Oxalic acid

Ans: a) Methanoic acid

5) What is the pH value of acid rain?

- a) Less than 5.6
- b) More than 5.6
- c) Equal to 7.0
- d) More than 7.0

Ans:a) Less than 5.6



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6) Sulphur Dioxide when dissolved in water forms

- a) Sulphur Trioxide
- b) Sulphurous acid
- c) Sulphuric acid
- d) Sulphur

Ans: b) Sulphurous acid

7) Which of the following contains Citric acid?

- a) Tomato
- b) Orange
- c) Tamarind
- d) Sour milk

Ans: b) Orange

8) Which type of medicines are used for treating indigestion?

- a) Antibiotic
- b) Analgesic
- c) Antacid
- d) Antiseptic

Ans: c) Antacid

9) Oxalic acid is found in _____.

- a) Vinegar
- b) Orange
- c) Spinach
- d) Ant sting

Ans: c) Spinach

10) An acid is a substance which _____.

- a) donates a proton
- b) accepts an electron pair
- c) gives H⁺ in water
- d) all of the above

Ans: d) all of the above



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11) Lemon fruit is a rich source of

- a) malic acid
- b) citric acid
- c) tartaric acid
- d) acetic acid

Ans: b) citric acid

12) Which of the following substances can be used for identifying an acid solution?

- a) NaCl
- b) KNO_3
- c) Na_2CO_3
- d) K_2SO_4

Ans: b) KNO_3

13) Which among the following acids is abundant in grapes, bananas and Tamarind?

- a) Lactic Acid
- b) Oxalic Acid
- c) Tartaric Acid
- d) Acetic Acid

Ans: c) Tartaric Acid

14) Which of the following gases is liberated when a metal reacts with an acid?

- a) Oxygen
- b) Hydrogen
- c) Carbon dioxide
- d) Nitrogen

Ans: b) Hydrogen

15) What are the products of the reaction when metal carbonate reacts with an acid?

- a) Salt and Hydrogen
- b) Carbon dioxide
- c) Salt, Carbon dioxide and water
- d) Salt, Carbon dioxide and Hydrogen

Ans: c) Salt, Carbon dioxide and water



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16) Which of the following is/are correct statements about Metallic oxides?

1. Metallic oxides are also called as basic oxides
2. Metallic oxides react with acid to give salt and water.

Select the correct option from the codes given below:

- a) Only 1
- b) Only 2
- c) Both 1 and 2
- d) Neither 1 nor 2

Ans: c) Both 1 and 2

17) What is the pH of human blood?

- a) 8.2
- b) 7.4
- c) 6.5
- d) 7

Ans: b) 7.4

18) A drop of a liquid sample was put on the pH paper. It was observed that the colour of the pH paper turns blue. The liquid sample is _____.

- a) distilled water
- b) lemon juice
- c) sodium bicarbonate solution
- d) None of the above

Ans: c) sodium bicarbonate solution

19) Which of the following acids is used in photography?

- a) Formic acid
- b) Oxalic acid
- c) Citric acid
- d) Acetic acid

Ans: b) Oxalic acid



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20) What is the pH value of a salt made up of a strong acid and a weak base?

- a) More than 7
- b) Less than 7
- c) Between 10 to 14
- d) 7

Ans: b) Less than 7

21) Acid reacts with metals and releases _____.

- a) Hydrogen
- b) Carbon monoxide
- c) Carbon dioxide
- d) Oxygen

Ans: a) Hydrogen

22) Name the acid found in spinach.

- a) Oxalic Acid
- b) Citric Acid
- c) Ascorbic Acid
- d) Tartaric Acid

Ans: a) Oxalic Acid

23) Aqua regia is being prepared by which of the given acids?

- a) Nitric acid and Hydrochloric acid
- b) Citric acid and Nitric acid
- c) Sulphuric acid and Hydrochloric acid
- d) Sulphuric acid and Citric acid

Ans: a) Nitric and Hydrochloric acid

24) When a pH value of a solution shows 7, then a solution is?

- a) Acidic
- b) Basic
- c) Neutral
- d) None of these

Ans: c) Neutral



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25) Which of the following pH values are shown by bases?

- a) 7
- b) 9
- c) 5
- d) 6

Ans: b) 9

26) When a given solution turns red litmus blue, it indicates?

- a) The solution is alkaline
- b) the solution is acidic
- c) The solution is neither acidic nor basic
- d) None of the above

Ans: a) The solution is alkaline

27) Which of the following is present in a maximum amount in acid rain?

- a) Hydrochloric acid
- b) Sulphuric acid
- c) Nitric acid
- d) Ammonium nitrate

Ans: b) Sulphuric acid

28) An aqueous solution of copper sulphate solution shows an acidic character, what does it mean?

- a) It undergoes photolysis
- b) It undergoes dialysis
- c) It undergoes electrolysis
- d) It undergoes hydrolysis

Ans: d) It undergoes hydrolysis

29) Sodium Chloride is a product of?

- a) Strong acid and strong base
- b) Strong acid and weak base
- c) Strong base and weak acid
- d) Weak acid and weak base

Ans: a) Strong acid and strong base



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30) Which of the following is majorly present in the ocean?

- a) Calcium Carbonate
- b) Magnesium Sulphate
- c) Sodium Chloride
- d) Potassium Chloride

Ans: c) Sodium Chloride

31) What is the chemical name of baking soda?

- a) Calcium Carbonate
- b) Potassium Chloride
- c) Sodium Bicarbonate
- d) Hydrogen Chloride

Ans: c) Sodium Bicarbonate

32) What is the nature of Soda water?

- a) Alkaline
- b) Acidic
- c) Oxidising
- d) Reducing

Ans: b) Acidic

33) What is Neela thotha that refers to?

- a) Potassium Chloride
- b) Copper Sulphate
- c) Hydrochloric acid
- d) Sodium Hydroxide

Ans: b) Copper Sulphate

34) What is the common name of sodium hydroxide?

- a) Neela thotha
- b) Kala Azar
- c) Caustic soda
- d) None of these

Ans: c) Caustic soda



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35) What are Antacids?

- a) Salts
- b) Acids
- c) Buffer
- d) Bases

Ans: d) Bases

36) What is the chemical name of Epsom salt?

- a) Potassium chloride
- b) Sulphur dioxide
- c) Magnesium Sulphate
- d) Sodium Carbonate

Ans: c) Magnesium Sulphate

37) What is the chemical name of Bleaching Powder?

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

Ans: a) Calcium Oxychloride

38) Which of the following were used to develop Photographic plates?

- a) Silver Iodide
- b) Sodium Thiosulphate
- c) Hydrochloric acid
- d) Bromine

Ans: b) Sodium Thiosulphate

39) Which of the Following given options is coated on a Photographic plate?

- a) Sodium Hydroxide
- b) Potassium Chloride
- c) Silver oxide
- d) Silver Bromide

Ans: d) Silver Bromide



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40) Which acid does an ant sting possess?

- a) Methanoic acid
- b) Oxalic acid
- c) Lactic acid
- d) Citric acid

Ans: a) Methanoic acid

41) A solution reacts with crushed egg-shells to give a gas that turns lime water milky, the solution contains

- a) NaCl
- b) HCl
- c) LiCl
- d) KCl

Ans: b) HCl

42) An aqueous solution turns a red litmus solution into a blue excess addition of which of the following solutions would reverse the change ?

- a) Baking powder
- b) Ammonium hydroxide solution
- c) Lime
- d) Hydrochloric acid

Ans: d) Hydrochloric acid

43) Which of the following does not contain water of crystallization?

- a) Blue vitriol
- b) Baking soda
- c) Washing soda
- d) Crypsum

Ans: b) Baking soda

44) Sodium carbonate is a basic salt because it is a salt of

- a) Strong acid and strong base
- b) Weak acid and weak base
- c) Weak acid and strong base
- d) Strong acid and weak base

Ans: c) Weak acid and strong base



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45) Calcium phosphate is present in tooth enamel, its nature is

- a) Basic
- b) Acidic
- c) Neutral
- d) Amphoteric

Ans: c) Neutral

46) Which of the following substances will not give carbon dioxide on treatment with dilute acid ?

- a) Marble
- b) Lime
- c) Limestone
- d) Baking soda

Ans: b) Lime

47) Which is known as carbolic acid?

- a) Phenol
- b) Ethanol
- c) Acetic acid
- d) Oxalic acid

Ans: a) Phenol

48) Name an element which is common to all acids?

- a) Sulphur
- b) Chlorine
- c) Nitrogen
- d) Hydrogen

Ans: d) Hydrogen

49) What happens when an acid reacts with metal oxide?

- a) Salt and water is formed
- b) Metal hydride is formed
- c) Oxyacid will be formed
- d) None of the above

Ans: a) Salt and water is formed



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50) Which of the following is a battery acid?

- a) Sulphuric acid diluted with water
- b) Carboxylic acid mixed with water
- c) Concentrated hydrochloric acid
- d) Concentrated sulphuric acid

Ans: a) Sulphuric acid diluted with water

51) Red litmus paper turns into which color in basic/ alkaline conditions?

- a) Violet colour
- b) Red colour
- c) Blue colour
- d) No change

Ans: c) Blue colour

52) Which acid is present in sour milk?

- a) Ascorbic acid
- b) Ethanoic acid
- c) Tartaric acid
- d) Lactic acid

Ans: d) Lactic acid

53) Name the substance which on treatment with chlorine yields bleaching powder.

- a) Calcium hydroxide
- b) Calcium carbonate
- c) Calcium oxide
- d) Calcium chloride

Ans: a) Calcium hydroxide

54) In the presence of normal acids, Phenolphthalein colour remains

- a) Pink
- b) Colourless
- c) Orange
- d) Red

Ans: b) Colourless



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55) Which of the following is acidic in nature?

- a) Lime juice
- b) Human blood
- c) Lime water
- d) Antacid

Ans: a) Lime juice

56) The pH of the gastric juices released during digestion is

- a) less than 7
- b) more than 7
- c) equal to 7
- d) None of the above

Ans: a) less than 7

57) To protect tooth decay we are advised to brush our teeth regularly. The nature of the tooth paste commonly used is

- a) acidic
- b) neutral
- c) basic
- d) None of the above

Ans: c) basic

58) One of the constituents of baking powder is sodium hydrogen carbonate, the other constituent is

- a) hydrochloric acid
- b) tartaric acid
- c) acetic acid
- d) all the above

Ans: b) tartaric acid

59) A solution turns red litmus blue, its pH is likely to be

- a) equal to 7
- b) less than 7
- c) more than 7
- d) 1

Ans: c) more than 7



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60) Which sodium compound is used for softening hard water?

- a) Na_2CO_3
- b) NaHCO_3
- c) NaCl
- d) HCl

Ans: a) Na_2CO_3

61) The common name of CaOCl_2 is

- a) Bleaching powder
- b) Common Salt
- c) Plaster of Paris
- d) Gypsum

Ans: a) Bleaching powder

62) Why does dry HCl gas not change the colour of the dry litmus paper

- a) Because dry litmus paper is not an indicator
- b) Because HCl gas is a weak acid, we must use a strong acid
- c) Because dry HCl gas does not ionize to produce H^+ ions
- d) None of the above

Ans: c) Because dry HCl gas does not ionize to produce H^+ ions

63) Blue litmus paper turns into which colour in basic conditions?

- a) Violet colour
- b) Red colour
- c) Blue colour
- d) No change

Ans: d) No change

64) Which of the following is acidic?

- a) Lemon juice
- b) Tomatoes
- c) Milk
- d) All of the above

Ans: d) All of the above



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65) Which one of the following will turn red litmus blue?

- a) Vinegar
- b) Baking soda
- c) Lemon juice
- d) Soft drinks

Ans: b) Baking soda

66) Which one of the following will turn blue litmus red?

- a) Vinegar
- b) Lime water
- c) Baking soda
- d) Washing soda

Ans: a) Vinegar

67) Which acid is used in Aerated drinks?

- a) Nitric acid
- b) Citric acid
- c) Carbonic acid
- d) Sulphuric acid

Ans: c) Carbonic acid

68) Methyl orange is

- a) Pink in acidic medium, yellow in basic medium
- b) Yellow in acidic medium, pink in basic medium
- c) Colourless in acidic medium, pink in basic medium
- d) Pink in acidic medium, colourless in basic medium.

Ans: a) Pink in acidic medium, yellow in basic medium

69) Lime water is

- a) CaO
- b) Ca(OH)₂
- c) CaCO₃
- d) CaCl₂

Ans: b) Ca(OH)₂



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70) Which acid is used in Fertilizers and dyes?

- a) Nitric acid
- b) Citric acid
- c) Carbonic acid
- d) Sulphuric acid

Ans: a) Nitric acid

71) Which of the following salts has no water of crystallization?

- a) Blue vitriol
- b) Washing soda
- c) Baking soda
- d) Gypsum

Ans: c) Baking soda

72) Which of the following does not form an acidic salt?

- a) Phosphoric acid
- b) Carbonic acid
- c) Hydrochloric acid
- d) Sulphuric acid

Ans: b) Carbonic acid

73) The chemical formula of caustic potash is

- a) NaOH
- b) $\text{Ca}(\text{OH})_2$
- c) NH_4OH
- d) KOH

Ans: d) KOH

74) _____ is the process in which acids and bases react to form salts and water.

- a) Distillation
- b) Electrolysis
- c) Neutralisation
- d) Hydrolysis

Ans: c) Neutralisation



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75) Which acid is used in food preservation?

- a) Nitric acid
- b) Citric acid
- c) Carbonic acid
- d) Sulphuric acid

Ans: b) Citric acid

76) Which of the following salts is acidic in nature?

- a) Sodium Carbonate
- b) Ammonium Phosphate
- c) Magnesium Sulphate
- d) Sodium Acetate

Ans: a) Sodium Carbonate

77) Which of the following acids is present in apples?

- a) Citric acid
- b) Malic acid
- c) Tartaric acid
- d) Oxalic acid

Ans: b) Malic acid

78) Citric acid is present in which of the following fruits?

- a) Grape
- b) Lemon
- c) Tomato
- d) Vinegar

Ans: b) Lemon

79) What is the Molecular formula of Acetic acid?

- a) HCOOH
- b) HNO₃
- c) H₂SO₄
- d) CH₃COOH

Ans: d) CH₃COOH



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80) Which of the following acids is present in Grapes?

- a) Citric acid
- b) Malic acid
- c) Tartaric acid
- d) Oxalic acid

Ans: c) Tartaric acid

81) Which acid is HCOOH?

- a) Nitric acid
- b) Formic acid
- c) Sulphuric acid
- d) Acetic acid

Ans: b) Formic acid

82) Oxalic acid is present in which of the following fruits?

- a) Grape
- b) Lemon
- c) Banana
- d) Tomato

Ans: d) Tomato

83) What is the molecular formula for Phosphoric acid?

- a) H_3PO_4
- b) H_2SO_4
- c) HNO_3
- d) $HCOOH$

Ans: a) H_3PO_4

84) Which of the following acids present in Vinegar?

- a) Acetic acid
- b) Malic acid
- c) Tartaric acid
- d) Oxalic acid

Ans: a) Acetic acid



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85) Which of the following contains the Ascorbic acid?

- a) Curd
- b) Orange
- c) Tea
- d) Stomach juice

Ans: b) Orange

86) Which of the following is/are natural acids?

- 1) HCOOH
 - 2) CH₃COOH
 - 3) HCl
 - 4) HNO₃
- a) Only 1
 - b) Both 1 and 2
 - c) Both 1 and 3
 - d) All of the above

Ans: b) Both 1 and 2

87) Which of the following contains the Lactic acid?

- a) Curd
- b) Orange
- c) Tea
- d) Stomach juice

Ans: a) Curd

88) Which of the following acids present in the human stomach?

- a) Tannic acid
- b) Formic acid
- c) Acetic acid
- d) Hydrochloric acid

Ans: d) Hydrochloric acid



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89) Which of the following contains the Tannic acid?

- a) Curd
- b) Orange
- c) Tea
- d) Stomach juice

Ans: c) Tea

90) Which of the following is a strong acid?

- a) Citric acid
- b) Acetic acid
- c) Hydrochloric acid
- d) Tartaric acid

Ans: c) Hydrochloric acid

91) Which of the following is the strongest acid?

- a) Ammonium hydroxide
- b) Acetic acid
- c) HCl
- d) Sulphuric acid

Ans: d) Sulphuric acid

92) Which of the following is a weak acid?

- a) Acetic acid
- b) Carbonic acid
- c) Formic acid
- d) Hydrochloric acid

Ans: a) Acetic acid