CHEMISTRY

BOOKS - NAVNEET PUBLICATION

SUBSTANCES IN COMMON USE

Examples

1. What are salts?

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Exercise

1. Explain the hydrolysis of salt of strong acid and weak base.

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2. Explain the hydrolysis of salt of strong acid and weak base.

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3. Salt obtained from certain type of rock is called ..... .

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4. Fill in the blank:

Slaked lime reacts with chloride gas, ...is obtained.

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5. The chemical name of baking soda is .....

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6. Fill in the blank:

.....is used to make bread, cake, dhokla.

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7. The number of molecules of water of crystallization in washing soda is ..... .

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8. .....is used in treatment of hyperthyroidism.

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9. Fill in the blank:

.....invented an artifical dye.

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10. Fill in the blank:

The red colour used on Rang Panchami is very dangerous as it contains a high proportion of.....in it.

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11. The chemical name of Teflon is..... .

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12. Fill in the blank:

A heat resistance substance formed by kneading an inorganic substance in water and then shaping it and hardening it by heating is called.....

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13. Choose the correct alternative and write it along with its alloted alphabet:

.....is used to make the active substance CO_2 in fire extinguisher.

A. Na_2CO_3

B. $NaHCO_3$

C. $NaCl$

D. $NaNO_3$

Answer: B

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14. Choose the correct alternative and write it along with its alloted alphabet:

.....is used in the manufacturing of soaps and detergents.

A. Sodium carbonate

B. Calcium carbonate

C. sodium bicarbonate

D. sodium nitrate

Answer: A

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15. Choose the correct alternative and write it along with its alloted alphabet:

.....is an ingredient of baking powder.

A. Aluminium chloride

B. Sodium carbonate

C. sodium bicarbonate

D. Aluminium sulphate

Answer: C

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16. Choose the correct alternative and write it along with its alloted alphabet:

.....is used with tamarind while cooking to help in maintaining the pH of our body.

A. salt

B. kokam

C. Jaggery

D. Vinegar

Answer: C

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17. Choose the correct alternative and write it along with its alloted alphabet:

The pH range of human blood is.....

A. $6.35 \rightarrow 7.35$

B. $7.35 \rightarrow 7.45$

C. $7 \rightarrow 7.5$

D. More than 5

Answer: B

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18. Choose the correct alternative and write it along with its alloted alphabet:

What is the colour of a universal indicator in neutral solution?

A. red

B. blue

C. green

D. greenish yellow

Answer: C

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19. Choose the correct alternative and write it along with its alloted alphabet:

The most accurate method of measruing the pH of a solution is.....

A. Universal indicator

B. pH paper

C. pH meter

D. All of these

Answer: C

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20. Choose the correct alternative and write it along with its alloted alphabet:

Of the following .....can be used to decolourise the coloured clothes.

A. hydrogen

B. chlorine

C. oxygen

D. bromine

Answer: B

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21. Choose the correct alternative and write it along with its alloted alphabet:

Bleaching powder reacts with dilute sulphuric acid to form.....gas.

A. chlorine

B. hydrogen

C. oxygen

D. carbon dioxide

Answer: A

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22. Choose the correct alternative and write it along with its alloted alphabet:

The chemical name of bleaching power is .....

A. calcium chloride

B. calcium hydroxide

C. calcium oxide

D. calcium oxychloride

Answer: D

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23. Choose the correct alternative and write it along with its alloted alphabet:

The activated chaqrcoal is used in the .....

A. laundry

B. bathroom

C. laboratory

D. kitchen

Answer: C

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24. Choose the correct alternative and write it along with its alloted alphabet:

.....is used for disinfection of drinking water.

A. copper sulphate

B. Alum

C. Bleaching powder

D. sodium carbonate

Answer: B

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25. State whether the following statements are true or false:

Salts of strong acids and weak bases are acidic with the pH value less than 7.

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26. State whether the following statements are True or False:

The chemical formula of slaked lime is CaO.

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27. State whether the following statements are True or False:

Bleaching powder acts as an oxidising agent in chemical reactions.

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28. State whether the following statements are True or False:

Instead of clay, oxides like alumina (Al_2O_3) zirconia (ZrO_2), silica (SiO_2) and some other

compounds like silicon carbide (SiC) are used for making advanced ceramic.

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29. State whether the following statements are True or False:

When epsom salt is heated, the water of crystallization is given out and it forms a white amorphous powder.

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30. State whether the following statements are True or False:

The dye used in lipstick is carmine.

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31. State whether the following statements are True or False:

The red colour used during Rang Panchami contains high proportion of lead.

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32. State whether the following statements are True or False:

Aluminium and silica are used to prepare deodorants.

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33. State whether the following statements are True or False:

Teflon is the polymer of tetrafluoroethene.

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34. Find the odd one out:

Uranium, aluminium, radium, thorium

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35. Find the odd one out:

Uranium, plutonium, sodium, radium

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36. Find the odd one out:

Uranium, radium, helium, plutonium

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37. Find the odd one out:

Thorium, cadmium, plutonium, radium.

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38. Match the columns:

(2) Column I	Column II
(1) Bleaching powder	(a) $CaOCl_2$
(2) Rock salt	(b) NaCl
	(c) $NaHCO_3$
	(d) $Na_2CO_3.10H_2O$

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39. Name the following:

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

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40. Name the following:

The compound used for disinfecting drinking water.

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41. Name the following:

The real bleaching agent present in bleaching powder.

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42. Name the following:

The types of radiations given out by a radioactive substance.

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43. Answer the following questions:

What would be the pH of a salt of a weak acid and a strong base?

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44. Explain the hydrolysis of salt of strong acid and weak base.

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45. Answer the following questions:

What would be the pH of a salt of a strong acid and a strong base?

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46. Answer the following question:

Which products are obtained when an electric current is passed through sodium chloride solution?

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47. Answer the following question:

State two properties of sodium chloride.

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48. Answer the following question:

State two uses of sodium chloride.

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49. Answer the following question:

What would be the pH of the aqueous solution of sodium chloride?

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50. Answer the following question:

What is meant by saturated brine?

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51. Answer the following question:

Write the chemical formula of salt.

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52. Answer the following question:

Write the chemical name of baking soda.

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53. Answer the following question:

State two properties of sodium bicarbonate(baking soda).

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54. Uses of sodium bicarbonate

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55. Constituents of baking powder.

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56. Answer the following question:

Write the chemical name of baking soda.

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57. Answer the following question:

How is bleaching powder $(CaOCl_2)$ prepared?

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58. Answer the following question:

State two properties of bleaching powder $(CaOCl_2)$.

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59. Answer the following question:

State two uses of bleaching powder $(CaOCl_2)$.

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60. Answer the following question:

State two properties of sodium carbonate $(Na_2CO_3.10H_2O)$

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61. Answer the following question:

State two uses of sodium carbonate (washing soda).

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62. Answer the following question:

Which of the following compounds is used as antacid in medicine? (i) sodium hydrogen carbonate $(NaHCO_3)$ (ii) sodium carbonate (Na_2CO_3).

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63. Substance used to make hard water soft.

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64. Chemical formula of bleaching powder

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65. Answer the following questions:

What is meant by water of crystallization? Give examples?

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66. Answer the following question:

What is meant by soap?

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67. What are detergents?

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68. Which chemicals and apparatus will you use in the laboratory for making soap?

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69. Answer the following question:

Define radioactivity: What are radioactive

substances? Name the scientist who discovered radioactivity.

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70. What is meant by radioactivity?

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71. Answer the following question:

Mention the names of four scientists who worked on radioactivity.

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72. Answer the following question:

Give four examples of radioactive elements.

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73. Answer the following question:

Give four examples of radioactive elements.

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74. Answer the following question:

Give four examples of radioactive elements.

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75. State properties of α rays.

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76. Answer the following question:

State any three characterstic properties of

beta rays.

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77. Answer the following question:

State any three characterstic properties of gamma rays.

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78. Answer the following question:

When is the nucleus said to be unstable?

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79. Answer the following question:

State three used of radiactive isotopes in the industrial field.

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80. Give the uses of radioactive isotopes in Field of agriculture.

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81. Answer the following question:

State three uses of radioactive isotopes in the field of medical science.

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82. Write the uses of :

Radioactive substances

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83. Answer the following question:

Write the harmful effects of radioactive subtances.

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84. What problems do you get after playing colours on Rang Panchami?

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85. What problem do you have on painting the house and furniture?

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86. Answer the following question:

Write the harmful effects of artifical food colour.

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87. Answer the following question:

What is meant by dye?

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88. Answer the following question:

State the uses of Artificial dye.

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89. Answer the following question:

Write the harmful effects of artificial dye.

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90. Answer the following question:

Name the main source of a natural dye.

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91. Answer the following question:

Write the uses of natural dye.

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92. Answer the following question:

What type of colours will you use to celebrate eco friendly Rang Panchami? Why?

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93. Answer the following question:

What is meant by deodorant?

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94. Answer the following question:

Write the harmful effects of deodorant.

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95. Answer the following question:

What is meant by teflon? Give its chemical name.

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96. Write down properties of teflon.

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97. Writes uses of Teflon?

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98. Why has the use of methods like Teflon coating become more common?

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99. What is the property of Teflon because of which it is used in non-stickware ?

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100. Answer the following question:

What is meant by ceramic?

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101. Give scientific reasons:

Bleaching powder has the odour of chlorine.

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102. Give scientific reasons:

The hard water of a well becomes soft on adding washing soda to it.

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103. Give scientific reasons:

Soap forms a precipitate in hard water.

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104. Give scientific explanation:

The particles of powder are given an electric charge while spraying them to form the powder coating.

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105. Give scientific reasons:

The aluminium article is used as an anode in the anodizing process.

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106. Give scientific reasons:

A certain type of ceramic tiles are fixed on the outer layer of a space shuttle.

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107. Write the uses of :

Anodizing.

Watch Video Solution

108. Write the uses of :

Powder coating.

Watch Video Solution

109. Write the uses of ceramic.

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110. Give scientific reasons:

Baking powder is used in the preparation of spongy bread and cake.

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111. Give scientific reasons:

Sodium bicarbonate is used in a fire extinguisher.

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112. Give scientific reasons:

Copper sulphate crystals turn to a white amorphous powder on heating.

Watch Video Solution

113. Give scientific reasons:

Bleaching powder has the odour of chlorine.

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114. Distinguish between Bathing soap and washing soap.

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115. Distinguish between $\alpha rays$ and $\beta rays$

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116. Distinguish between $\beta rays$ and $\gamma rays$.

Watch Video Solution

117. Distinguish between $\alpha rays$ and $\gamma rays$.

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118. Describe the following chemical reactions giving their balanced equation:

An electric current is passed through an aqueous solution of sodium chloride.

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119. Describe the following chemical reactions giving their balanced equation:

Chlorine gas is passed through slaked lime.

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120. Describe the following chemical reactions giving their balanced equation:

Bleaching powder reacts with atmospheric carbon dioxide gas.

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121. Describe the following chemical reactions giving their balanced equation:

Sodium carbonate is treated with dilute sulpuric acid.

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122. Describe the following chemical reactions giving their balanced equation:

Bleaching powder is treated with dilute sulphuric acid.

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123. Describe the following chemical reactions giving their balanced equation:

Washing soda is added to hard water.

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124. Describe the following chemical reactions giving their balanced equation:

Crystalline sodium carbonate is exposed to air.

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