



CHEMISTRY

BOOKS - JNAN PUBLICATION

ROLE OF SUBSTANCES IN ENVIRONMENT

Example

1. Write the names of two metallic and four non-metallic elements in the blank space.



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2. Write the names of three non-metals that are more abundant in human body than in earth crust.



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3. We can see that about 97% of the total mass of human body can be attributed to the

combined mass of four elements. Can you identify them?



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4. Mention the different parts of plants that we take as food.



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5. We take different fruits of different plants. Do they have the same taste?



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6. The most abundant element found in human body is

A. Aluminium

B. Silicon

C. Oxygen

D. Carbon

Answer:



7. If there is increased quantity of fat in a body then water content is _____

- A. less
- B. exceeds
- C. remain the same
- D.

Answer:



8. Next to oxygen, the most important requirement for our survival is _____

A. air

B. light

C. water

D.

Answer:



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9. Iron is an essential component of _____

A. bones

B. red blood cells

C. nerve

D. skin

Answer:



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10. The major constituent of bone is a phosphate of _____

A. iron

B. sodium

C. magnesium

D. calcium

Answer:



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11. Energy required for germination of the seed comes from _____

A. protein

B. water

C. carbohydrates

D.

Answer:



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12. Breakdown of lipids in a cell gives _____

A. strength

B. energy

C. stimulation

D.

Answer:



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13. The fluid secreted from the body of an ant is _____

A. acid

B. base

C. salt

D. alkali

Answer:



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14. Water in nature is _____

A. acidic

B. basic

C. neutral

D. alkaline

Answer:



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15. When acids are dissolved in water, they release_____

- A. oxygen ions
- B. hydrogen ions
- C. nitrogen ions
- D.

Answer:



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16. The ion which is present in common salt is

_____.

A. Sodium

B. Potassium

C. Berium

D. Calcium

Answer:



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17. Iodine deficiency cause_____

A. high blood pressure

B. low blood pressure

C. goitre

D. heart disease

Answer:



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18. A polymer called polythene is prepared by joining molecules of _____

A. Methane

B. Chlorinc

C. Ethylene (C_2H_2)

D. Ethane

Answer:



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19. The acid present in tamarind _____

A. malic acid

B. lactic acid

C. acetic acid

D. tartaric acid

Answer:



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20. In general taste of alkali is _____

A. acidic

B. bitter

C. basic

D. tasteless

Answer:



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21. A crystalline subject_____

A. chalk

B. lime

C. sand

D. sugar

Answer:



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22. If the pressure of blood increases what may happen in our body_____

A. veins can rupture

B. heart valves may be damaged

C. blood clots may be formed in the brain

D. all are true

Answer:



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23. Fill in the blanks :

Human body is mainly formed of the combined mass of _____ elements.



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24. Fill in the blanks :

We get _____ from inorganic compounds.



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25. Fill in the blanks :

Using the energy of _____, plants produce glucose.



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26. Fill in the blanks :

_____ is an important constituent of the body of organisms.



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27. Fill in the blanks :

Water constitutes about _____ of the total mass of human body.



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28. Next to oxygen, the most important requirement for our survival is _____



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29. Fill in the blanks :

The major constituent of bone is a phosphate of _____.



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30. Fill in the blanks :

Without ferrous (Fe^{2+}) ----- of blood's red blood cell cannot function.



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31. Fill in the blanks :

Energy required for germination of the seed comes from _____ stored in it.



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32. Fill in the blanks :

The protein called haemoglobin transports _____ to different parts of our body.



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33. Fill in the blanks :

Bases soluble in water are known as _____.



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34. Fill in the blanks :

All _____ are bases but all bases are not alkalis.



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35. Fill in the blanks :

Lemon juice causes stain on _____ floor.



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36. Fill in the blanks :

The concentrated alkali solution is extremely harmful for skin and _____.



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37. Fill in the blanks :

Our body also contains acid in the _____.



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38. Fill in the blanks :

_____ of Calcium in our body is in our bones.



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39. Fill in the blanks :

_____ is necessary for deposition of Calcium
in the bones.



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40. Fill in the blanks :

One important constituent of our blood is
_____.



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41. Fill in the blanks :

To meet the demand of salt in reserve forests
there are _____ for animals.



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42. Fill in the blanks :

_____ helps in maturation of brain, so it is essential for children.



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43. Fill in the blanks :

Generally iodine deficiency problems are more in _____ regions than in plains.



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44. Fill in the blanks :

The fibres in the plant body are made of different types of _____ polymers.



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45. Fill in the blanks :

The muscles, tendons, ligaments etc of animal bodies are made up of _____, which also are polymers.



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46. Fill in the blanks :

_____ is the sodium or potassium salt of some organic acids which are prepared from the reaction of caustic soda or caustic potash with _____ or oils.



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47. Fill in the blanks :

_____ is used for writing or printing is mixture of pigments.



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48. Fill in the blanks :

_____ is a mixture of oxides and Silicate compounds of many metals like Calcium, Aluminium, Iron etc.



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49. Fill in the blanks :

Some of the widely consumed soft drinks in our

country are found to contain_____ in
alarming quantities.



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50. State whether True or False.

Carbonic acid is present in vinigar.



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51. State whether True or False.

Apple contains malic acid.



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52. State whether True or False.

Lactic acid is present in curd.



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53. State whether True or False.

Our body contains acid in the stomach.



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54. State whether True or False.

Alkali turns moist red litmus white.



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55. State whether True or False.

The taste of blood is sour.



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56. State whether True or False.

Water does not change the colour of litmus paper.



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57. State whether True or False.

If our kidneys get affected due to some reason, then urea, uric acid and creatinine levels in the blood decrease.



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58. State whether True or False.

Common salt is a white, crystalline mixture.



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59. State whether True or False.

Some salt enters our body through the water we drink.



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60. State whether True or False.

Pure sodium chloride absorbs water from air.



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61. State whether True or False.

The main constituent of human blood is water.



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62. State whether True or False.

Milk, curd, bones of small fishes are the main

sources of iron.



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63. State whether True or False.

Cactus Acacia, Palm grow in hot and dry areas.



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64. State whether True or False.

Iodine helps in maturation of brain.



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65. State whether True or False.

Many small molecules join together to form a molecule of a polymer.



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66. Match the column A with column B.

Column A	Column B
a) PET is used for	i) are present in tomato
b) Many countries has banned	ii) grow in mangrove forest
c) The substances decomposed through	iii) preparing bottle and food boxes
d) Malic, oxalic and citric acids	iv) high temperature
e) Carbonic acid is present	v) haemoglobin cannot be formed
f) Animals that hunt at night	vi) DDT as pesticide
g) Cactus can tolerate	vii) natural process are known biodegradables
h) Without ferrous ion	viii) red litmus blue
i) Sundari trees	ix) can see in the dark
j) Alkali turns	x) in sodawater



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67. What are the main constituents of common salt?



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68. What is the symbol of Sodium Chloride?



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69. What are the two functions of Calcium?



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70. What are four elements prevalent in human, bacterial, fungal, plant and animal bodies?



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71. How the harmful compounds of our body are excreted?



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72. What are the different components of paints?



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73. What is the reason for wide use of cement?



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74. What will happen if you prepare a ball of cement, sand and water and keep it overnight?



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75. Write the name of three non-metallic elements.



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76. What is protein?



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77. Where protein is found in our body?



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78. What speed up numerous chemical reactions that occur in our body?





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79. On what the external appearance of the progeny of an organism depends.



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80. What partly determines the behavioural pattern of an animal?



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81. Name the four metals that are essential for our survival.



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82. When you eat fried fish, you ingest very small pieces of bone along with the fish, what it contains?



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83. What is there in the Calcium tablets prescribed by doctor?



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84. What is there in animal liver?



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85. With what the hard external shell of snails, conches and the like is made of?



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86. How many elements are present in living organisms in form of various compounds?



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87. How is lipid important?



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88. Name some substances other than fruit which tastes sour?



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89. What is acid?



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90. From where the word acid come from?



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91. Name an acid which produced in our stomach, how is it useful?



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92. What we take to reduce acidity in stomach?



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93. What is neutralisation reaction?



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94. Which acid is present in ant bite?



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95. What is base?



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96. What is alkali?



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97. Write the dissociation reaction of HCl in aqueous solution?



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98. How can you write the dissociation of slaked lime in lime water?



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99. What is pH scale?



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100. How much of our daily food should be acidic and basic?



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101. Name the foods which are basic in nature.



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102. Name the foods which are acidic in nature.



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103. How many types of salt do we use now a days as food?



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104. What is the medium of communication in our body?



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105. What assists the nerve in the activity of communication?



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106. What will happen if the level of salt in our body suddenly decreases due to some reason?



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107. Where from the word 'polymer' is derived?



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108. Name some fertilisers.



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109. Name some pesticides.



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110. What are the adverse effects of Lead and Mercury?



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111. What has been found in some of the widely consumed soft drinks in our country?



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112. What herbal medicine was used earlier for small cuts or bruises?



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113. In early days what was used for dying of clothes?



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114. Whose body contains more water male or female?



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115. Whose body contains more water child or adult?



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116. Whose body contains more water a thin person or a fat man?



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117. Which acid is present in vinegar?



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118. Which acid is present in orange?



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119. Which acid is present in lemon?



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120. Where the maximum amount of Calcium lies in our body?



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121. What is organic Sea-salt?



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122. What is the effect of reduced activity of thyroid glands on femals?



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123. Which acid is present in tomato?



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124. Which acid is present in sodawater?



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125. Which acid is present in tamarind?



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126. Which acid is present in curd?



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127. What is the role of vitamin D in our body?



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128. What are the function of different enzymes present in our body?



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129. How does glucose produce energy in our body?



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130. Why is iodized salt necessary for our body?



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131. What is pH scale? How is it important?



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132. What is thyroid gland?



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133. What is Goitre?



Watch Video Solution

134. What is soap?



Watch Video Solution

135. What is polymer?



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136. What harm nylon net are causing in the environment?



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137. Why cement and sand-based construction need watering?



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138. How is water helpful in human body?



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139. What are the two factors on which the acid-base balance of human body depends?

Why it is necessary to maintain a fixed acid-base balance in human body?



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140. What is the sources of Calcium that is essential for body?



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141. In most cases, mango or other fruit or vegetable slices are coated with common salt and dried in the sun, why?



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142. Why salt is used to preserve food since antiquity?



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143. Give example of some natural polymer.



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144. How many types of plastics are there?



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145. What are detergents?



Watch Video Solution

146. What are the harmful effects of DDT and other pesticides?



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147. What does glass consists of? What mixed compound is used to prepare yellow, blue and green coloured glass?



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148. Define biodegradable and non-biodegradable wastes.



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149. What are the general properties of common salt?



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