**Karan Arora**  **R.L. Institute M: 9416974837**

**Max Time : 1 hr** **Class = 10th Science Test Max Marks : 25**

**ACIDS, BASES AND SALTS**

1. Multiple Choice Questions : [ 1 x 5 = 5 ]
2. Human body works within the pH range of :

|  |  |  |  |
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| a) 7 to 7.8 | b) 4.5 to 5.6 | c) 13 to 14 | d) 1.2 to 2.2 |

1. Which of the following gives the correct increasing order of acidic strength?

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| a) Water < acetic acid < Hydrochloric acid | b) Water < Hydrochloric acid < Acetic acid |
| c) Acetic acid < Water < Hydrochloric acid | d) Hydrochloric acid < Water < acetic acid |

1. Which of the following is a neutralization reaction?

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| a) 4 Na + O2 2 Na2O | b) Fe + 2 HCl FeCl2 + H2 |
| c) MgO + H2O Mg(OH)2 | d) HNO3 + NaOH NaNO3 + H2O |

1. Common salt, besides being used in kitchen, can also be used as the raw material for making

(i) Washing soda (ii) Bleaching powder (iii) Baking soda (iv) Slaked lime

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| a) (i) , (ii) | b) (i) , (ii) and (iv) | c) (i) , (iii) | d) (i) , (iii) and (iv) |

1. Which of the following salts does not contain water of crystallization?

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

1. What is the common name of the compound CaOCl2? [ 1 ]
2. Name the substances which on treatment with chlorine yields bleaching powder. [ 1 ]
3. Name the sodium compound which is used for softening of hard water. [ 1 ]
4. Which one of these has a higher concentration of H+ ions? 1 M HCl or 1 M CH3COOH. [ 1 ]
5. In additional to sodium hydrogen carbonate, baking powder contains a substance ‘X’. Name the substance ‘X’. [ 1 ]
6. Name the acid present in : (a) Tomato (b) Vinegar (c) Tamarind [ 2 ]
7. Why should curd and sour substances not be kept in brass and copper vessels? [ 2 ]
8. Write method of preparation of : (a) POP (b) Bleaching powder. [ 2 ]
9. Write chemical formula of washing soda. How can it be obtained from baking soda? List two industries in which washing soda is used for other purposes than washing clothes. [ 3 ]
10. Define water of crystallization. give chemical formula for 2 compounds as examples. How can it be proved that the water of crystallization makes a difference in the state and colour of the compound? [ 3 ]
11. Write 2 uses of each : (a) Baking soda (b) Plaster of Paris. [ 3 ]

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