

D.A.V PS SASARAM

2nd Worksheet of chemistry

For class 10th section B,C & D

Q.1 why do hydrochloric acid, nitric acid etc show acidic character in aqueous solution while solutions of compounds like alcohol & glucose do not show acidic character?

Q.2 Why does an aqueous solution of an acid conduct electricity ?

Q.3. Why does dry hydrogen chloride gas not Change the colour of the dry litmus paper?

Q.4 While diluting an acid ,why is it recommended that the acid should be added to water and not water to the acid ?

Q.5 How is the concentration of hydronium ions affected when a solution of an acid is diluted ?

Q.6 How is the concentration of hydroxide ions affected when excess base is dissolved in a solution of sodium hydroxide ?

Q.7 What is an alkali ?

Q.8 What is pH ?

Q.9 What is universal indicator ?

Q.10 What is pH scale ?

Q.11 Write the pH range of acidic,basic and neutral solutions.

Q.12 What are the strong acids ?

Q.13 What are weak acids ?

Q.14 What is acid rain ?

Q.15 How acid rain harms the aquatic life ?

Q.16 Two solutions A and B have pH values 2.0 and 10.0 respectively. Which of these will turn litmus solution from blue to red and which will turn phenolphthalein from colourless to pink ?

Q.17 Name the acid present in guava,apple and tamarind.

Q.18 Do basic solutions also have hydronium ions ? If yes,then why are these basic ?

Q.19 What effect does the concentration of hydronium ions have on the nature of the solution ?

Q.20 Why does distilled water not conduct electricity, whereas rain water does ?