



EKALAVYA BATCH II

Q1. A solution turns red litmus blue. Its pH is likely to be:

- a) 1 b) 4 c) 5 d) 10

Q2. Which of the following gives the correct increasing order of acidic strength?

- a) Water < Acetic acid < Hydrochloric acid b) Water < Hydrochloric acid < Acetic acid
c) Acetic acid < Water < Hydrochloric acid d) Hydrochloric acid < Water < Acetic acid

Q3. What happens when a solution of an acid is mixed with a solution of a base in a test tube?

- i) Temperature of the solution decreases ii) Temperature of the solution increases
iii) Temperature of the solution remains the same iv) Salt formation takes place
a) (i) and (iv) b) (i) and (iii) c) (ii) only d) (ii) and (iv)

Q4. When gas SO_2 is passed through water, the solution formed is:

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

Q5. Which of the following is used for dissolution of gold?

- a) Hydrochloric acid b) Sulphuric acid c) Nitric acid d) Aqua regia

Q6. Sodium hydrogen carbonate $NaHCO_3$ when added to acetic acid evolves a gas. Which of the following statements are true about the gas evolved?

- (i) It turns lime water milky. (ii) It extinguishes a burning splinter.
(iii) It dissolves in a solution of sodium hydroxide. (iv) It has a pungent odour.
a) (i) and (ii) b) (i), (ii) and (iii) c) (ii), (iii) and (iv) d) (i) and (iv)

Q7. Our stomach produces which acid that helps in digestion without harming the stomach?

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

Q8. Which of the following solutions will turn phenolphthalein pink?

- a) HCl (aq) b) CO_2 (aq) c) KOH(aq) d) H_2SO_4 (aq)

Q9. Which of the following statements is true for acids?

- a) Bitter and change red litmus to blue b) Sour and change red litmus to blue
c) Sour and change blue litmus to red d) Bitter and change blue litmus to red

Q10. The acid having highest hydrogen ion concentration is one with

- a) pH = 2.5 b) pH = 1.8 c) pH = 7 d) pH = 10

Q11. The pH of the gastric juices released during digestion is:

- a) less than 7 b) more than 7 c) equal to 7 d) equal to 0

Q12. If a few drops of a concentrated acid accidentally spills over the hand of a student, what should be done?

- a) Wash the hand with saline solution.
b) Wash the hand immediately with plenty of water and apply a paste of sodium hydrogen carbonate.
c) After washing with plenty of water, apply solution of sodium hydroxide on the hand.
d) Neutralise the acid with a strong alkali

Q13. Sodium hydrogen carbonate when added to acetic acid evolves a gas. Which of the following statements is true about the gas evolved?

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(iii) It dissolves in a solution of sodium hydroxide. (iv) It has a pungent odour.
a) (i) and (ii) b) (i), (ii) and (iii) c) (ii), (iii) and (iv) d) (i) and (iv)

Q14. Which solution will change blue litmus to red?

- a) NaOH(aq) b) H_2SO_4 (aq) c) KCl(aq) d) NH_4OH (aq)

Q15. Which is a soluble base in water?

- a) $Cu(OH)_2$ b) $Fe(OH)_3$ c) $Zn(OH)_2$ d) KOH

Q16. In general, salts

- a) are ionic compounds. b) contain hydrogen ions. c) contain hydroxide ions. d) turn blue litmus red.

Q17. Which of the following properties is closely related to acids?

- a) Contain the hydroxide ion b) Bitter taste c) Salty taste d) Sour taste

Q18. A base can be prepared by the reaction between

- a) an active non-metal and water. b) a gas and water
c) a sulphide and water. d) an active metal and water.

Q19. Which of the following is (are) true when HCl(g) is passed through water?

- (i) It does not ionise in the solution as it is a covalent compound. (ii) It ionises in the solution.
(iii) It gives both hydrogen and hydroxyl ion in the solution. (iv) It forms hydronium ion in the solution due to the combination of hydrogen ion with water molecule.
a) (i) only b) (iii) only c) (ii) and (iv) d) (iii) and (iv)

20. What happens when a solution of an acid is mixed with a solution of a base in a test tube?

- (i) Temperature of the solution decreases (ii) Temperature of the solution increases

- (iii) Temperature of the solution remains the same (iv) Salt formation takes place
a) (i) and (iv) b) (i) and (ii) c) (i) only d) (ii) and (iv)

1 d	2 a	3	4 a	5 d	6	7	8 c	9 c	10 b
11 a	12 b	13 b	14 b	15 d	16 a	17 d	18 d	19 c	20 d