

## Chapter 5

### MULTIPLE CHOICE QUESTIONS

1. (b)
2. (c)
3. (b)
4. (d)
5. (a)
6. (c)
7. (d)
8. (a)
9. (d)
10. (c)
11. (c)

### VERY SHORT ANSWER QUESTIONS

12. **Hint:** Evaporation
13.
  - (a) False. Substances can be neutral as well.
  - (b) False. Acids do not turn all indicators red.
  - (c) True
  - (d) False. It does not change the colour of litmus at all.
  - (e) False. It is a man-made indicator.
  - (f) True
  - (g) False. It is acidic in nature.
14. No, because orange juice is acidic in nature.

### SHORT ANSWER QUESTIONS

15.

Test Tube	Nature of Solution	Change in colour of red litmus
A	Neutral	No change
B	Basic	Turn blue
C	Acidic	No change
D	Neutral	No change

16. Wasp sting inject a liquid in the skin which is acidic in nature. Hence, baking soda is the appropriate remedy, as it is basic in nature and neutralises the acid.

17. The effect of an ant bite can be neutralised by rubbing moist baking soda.
18. (a) (iii); (b) (v); (c) (iv); (d) (i); (e) (ii)
19. (a) sour, acids (b) natural  
(c) pink (d) neutralise, salt

### LONG ANSWER QUESTIONS

20. 'A' is an acidic solution.  
'B' is a basic solution.  
'C' is a neutral solution.

21.

1 I									
2 N	E	U	3 T	R	A	L			6 H
D			U			4 B	5 A	S	E
I			R				C		A
C			M				I		T
A			E				D		
T			7 R	E	D		I		
O			I				C		
R			C						

22. **Hint:** If the soil is too acidic, it is treated with bases such as quick lime (calcium oxide) or slaked lime (calcium hydroxide).  
If the soil is too basic, organic matter is added to it. Organic matter releases acids which neutralises the basic nature of the soil.

23. **Hint:** Use both red and blue litmus solutions and predict the colours in each case.

24.

Test Tube	Effect on blue litmus	Effect on red litmus	Effect on phenolphthalein solution
A	turns red	remains red	colourless
B	remains blue	turns blue	pink colour
C	remains blue	remains red	colourless

25. **Hint:**

- (a) Since factory waste may contain acids or bases, it can kill the fish.
- (b) If the factory waste is acidic in nature, it can be neutralised by adding basic substances.

26. **Hint:**

- 1. Indigestion
- 2. Ant sting