CHEMISTRY STUDY MATERIALS FOR CLASS 10

(NCERT Based: MCQ of Chapter -02)

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Acids, Bases and Salts

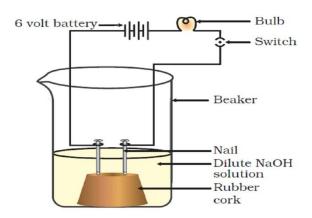
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l noose i	ne corre	ct option:
<u> </u>		CI OPHOH.

Ch	oose the correct option:					
1.	. Sodium carbonate is a basic salt because it is a salt of					
	(a) strong acid and strong base (b) weak acid and weak base					
	(c) strong acid and weak base (d) weak acid and strong base					
2.	Calcium phosphate is present in tooth enamel. Its nature is					
	(a) basic (b) acidic (c) neutral (d) amphoteric					
3.	A sample of soil is mixed with water and allowed to settle. The clear supernatant solution turns the pH paper yellowish-orange. Which of the following would change the colour of this pH paper to greenish-blue?					
	(a) Lemon juice (b) Vinegar (c) Common salt (d) An antacid					
4. Which of the following gives the correct increasing order of acidic strength						
(a) Water <acetic <hydrochloric="" acid="" acid<="" th=""></acetic>						
	(b) Water <hydrochloric <acetic="" acid="" acid<="" th=""></hydrochloric>					
	(c) Acetic acid <water <hydrochloric="" acid<="" li="">(d) Hydrochloric acid <water <acetic="" acid<="" li=""></water></water>					
5.	5. 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 ha					

(d) Neutralise the acid with a strong alkali

6.	Sodium hydrogen carbonate 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		•	nes a burning splinter	
	.,	•	()		
	(III) It dissolves	s in a solution of so	odium hydroxide (iv)i	t has a pungent odour	
	(a) (i) and (ii)	(b) (i), (ii) and (ii	i) (c) (ii), (iii) and (i	(v) (d) (i) and (iv)	
7.	Common salt bes	ides being used in	kitchen can also be	used as the raw	
	material for makir	ng			
	(i) washing sod	a (ii) bleaching po	owder (iii) baking so	oda (iv) slaked lime	
	(a) (i) and (ii)	(b) (i), (ii) and (iv	(c) (i) and (iii)	(d) (i), (iii) and (iv)	
8.	One of the consti	tuents of baking po	owder is sodium hydr	ogen carbonate, the	
	other constituent	is			
	(a) hydrochlorid	c acid (b) tartar	ic acid (c) acetic a	cid (d) sulphuric acid	
9.	To protect tooth of	decay we are advis	sed to brush our teet	h regularly. The nature	
	of the tooth pas	ste commonly used	l is		
	(a) acidic	(b) neutral	(c) basic	(d) corrosive	
10	.Which of the follow	wing statements is	correct about an aqu	ueous solution of an	
	acid and of a base	e?			
	(i) Higher the pl	H, stronger the ac	id (ii) Higher the	pH, weaker the acid	
	(iii) Lower the p	H, stronger the ba	ase (iv) Lower the	pH, weaker the base	
	(a) (i) and (iii)	(b) (ii) and	(iii) (c) (i) and (iv) (d) (ii) and (iv)	
11	.The pH of the gas	stric juices release	d during digestion is		
	(a) less than 7	(b) more th	an 7 (c) equal to	7 (d) equal to 0	
12	Which of the follow	wing phenomena c	occur, when a small a	mount of acid is added	
	to water? (i) Ioni	sation (ii) Neutrali	sation (III) Dilution	(iv) Salt formation	
	to water? (i) Ionia (a) (i) and (ii)		(c) (ii) and (iii)		
13	(a) (i) and (ii)	(b) (i) and (iii)	(c) (ii) and (iii)		

- (a) Lime juice (b) Human blood (c) Lime water (d) Antacid
 15. In an attempt to demonstrate electrical conductivity through an electrolyte, the following apparatus (see below Figure) was set up. Which among the following statement(s) is (are) correct?
 (i) Bulb will not glow because electrolyte is not acidic
 (ii) Bulb will glow because NaOH is a strong base and furnishes ions for conduction.
 - (iii) Bulb will not glow because circuit is incomplete
 - (iv) Bulb will not glow because it depends upon the type of electrolytic solution
 - (a) (i) and (iii)
- (b) (ii) and (iv)
- (c) (ii) only
- (d) (iv) only



- 16. Which of the following is used for dissolution of gold?
- (a) Hydrochloric acid (b) Sulphuric acid (c) Nitric acid (d) Aqua regia17. Which of the following is not a mineral acid?
- (a) Hydrochloric acid (b) Sulphuric acid (c) Nitric acid (d) Aqua regia18. Which among the following is not a base?
 - (a) NaOH
- (b) KOH
- (c) NH₄OH
- (d) C₂H₅ OH
- 19. Which of the following statements is not correct?
 - (a) All metal carbonates react with acid to give a salt, water and carbon dioxide
 - (b) All metal oxides react with water to give salt and acid
 - (c) Some metals react with acids to give salt and hydrogen
 - (d) Some non metal oxides react with water to form an acid
