

## **Engineering Chemistry**

## WorkSheet

## Unit 1: Water and its Treatment

Ch	oose the correct A	Inswer					
1.	The units of hardness is expressed in terms of						
	(a) ppm (1	o) mg/1	(c) clark	degree	(d) All the above		
2.	The amount of chlorine required to kill bacteria is called						
	(a) Disinfection		(b) breal	(b) break point of chlorination			
	(c) sedimentation		(d) coag	(d) coagulation			
3. The process of treating the water in boiler is called					led		
	(a) External tre	atment	(b	) internal	treatment		
	(c) ion exchang	e process	(d	) none of	these		
4.	The formula of bleaching powder is						
	(a) CaOCl <sub>2</sub>		(b	) Ca(OH)2			
	(c) CaCO <sub>3</sub>		(d	) NaOH			
5.	Temporary hardness in water is removed by						
	(a) filteration		(b	(b) Sedimentation			
	(c) boiling		(d	(d) Coagulation			
6.	The salts responsible for hardness of water are						
	a)Ca+2,Mg+2		b)Al+2		c)Na+,K+	d) None	

7.	The color of EB-T indicator in EDTA method						
	(a	ı) pinl	ζ	(b) blue	(c) wine red	(d) colourless	3
8.	The	Speci	fications of F	Potable Water			
	a)	Color	less	b) odourless	c)Tast	eless d) ALI	the above
9.	The Methods used for Disinfection of Water treatment						
	a)		Ozonization		c)Chlorinatio	n	
	b	)	both a and b		d) Phenolic T	reatment	
10. The process of removal of hardness of water irrespective of whether it is temporal or permanent is termed as						t is temporary	
	a)	Clear	nising action	of water		b)Hardness of water	r
	c)	Softe	ning of water	•		d)Purity of water	
Fill	in t	he Bl	anks				
11.	The	indica	ator used in	the complexo	metric method	1	_
12. The hard precipitates formed on the inner walls of the boiler is							
13. The process of removing salt from water is called							
14. The soft precipitate formed in the boiler is							
15.	EDT	'A is					
16.	РН с	of por	table water _				

17.

18.	The process of allowing the water to stand disturbing is called	for long period of	time without			
19.	The process of killing harmful bacteria in potable water is called					
20.	Hardness of water os conventionally expressed	l in terms of equival	ent amount of			
21.	MgCl2 & MgSO4 in water produces h	ardness				
Trı	True/False					
22.	The water which produces lather with soap is o	called Hard Water	True /False			
23.	Permanant hardness is removed by Boiling Met	True /False				
24.	Ion Exchange Process is also known as Demine	ralization Process	True /False			
25.	According to Specifications of potable the tu	rbidity should not ex	xceed 10 ppm True /False			
26.	Phosphate Conditioning is one of the method in	internal treatment	True /False			
Match the Following						
27.	Chemical name of calgon	a) Colorless				
28.	Color change in EDTA Method	b) Wine Red to Blu	e			
29.	Molecular Weight of CaCO3	c) Eriochrome Blac	k T			
30.	EBT	d) 100				
31.	Metal -EDTA	e) Sodium Hexa Mo	eta Phosphate			