## **3rd Term Worksheet [2018 – 19]**

## Subject - Chemistry Class - VIII

Name	e:		Sec.:
		<u>Chapter - 8</u>	
Chec	k Point:	[Water]	
[A]		er the following:	[127]
[, ,]	7 ti 13 ti 1.	What is the primary source of water on earth?	[127]
	Ans.		
	7 11 10 1		
	2.	List the different sources of water on earth.	
	Ans.		
	3.	What is the difference between surface water and groundwater.	
	Ans.		
	4.	Explain any three uses of water in our day-to-day life.	
	Ans.		
	5.	Describe the anomalous behaviour of water.	
	Ans.		
[B]	Write	T for True and F for false statement:	[133]
	1.	Sugar solution is an example of a true solution.	
	2.	Colloidal solution does not transmit light	
	3.	Suspensions scatter the beam of light	
	4.	Particle size of solute is greater in suspensions than in colloids	

	5.	Anhydrous salts contain water in them that imparts colour to the salt	
	6.	Silica get packets used in bottles helps to absorb moisture from bottles	
[C]	Answ	ver the following questions:	[134]
	1.	What is hard water? how is it different from soft water?	
	Ans.		
	2.	Suggest methods to remove the hardness of water.	
	3.	Distinguish between temporary and permanent hardness of water.	
	J.	Distinguish between temporary and permanent hardness or water.	
	4.	Write any one disadvantage of using hard water.	
Keywo	ords:		[135]
Surfac	e wate	er:	
Groun	d wate	er:	
Solute	):		
Solver			
Solutio	on:		

Non-	aqueou	s solut	ions:		
Aque	eous sol	 utions:			
Crys					
•	tallizati				
Hydr	ated sa	lts:			
Λnh	/drous s				
Ailin	yurous s	sarts.			
Hygr	oscopic	substa	ances:		
Llore	l water.				
	water: water:				
	water. porary l		PSS:		
1 0111	oorary r				
Perm	nanent I	Hardn	ess:		
Exer	cise:				[136-137]
[A]	Mult	iple Ch	noice Questions:		[136]
	(i)	Whi	ch of the following is not the sour	ce of surfa	ice water?
		(a)	rivers	(b)	lake
		(c)	well	(d)	oceans
	(ii)		•	er seeps ir	nto the soil and collects above the
		•	ermeable rock layer?	4.5	
		(a)	pond water	(b)	rain water
	/::: <b>\</b>	(c)	groundwater	(d)	sea water
	(iii)		•		etals in the reactivity series of metals?
		(a)	K>Na>Ca>Mg Ca>Na>Mg>K	(b)	K>Ca>Mg>Na K>Na>Mg>Ca
	(iv)	(c) Whi	ch of the following do not release	(d)	· ·
	(10)	(a)	calcium	(b)	magnesium
		(c)	solution	(d)	none of these
	(v)		salt solution, salt is		Home of these
	(*)	(a)	solute	 (b)	solvent
		(c)	solution	(d)	none of these
	(vi)				of hydrogen and oxygen, in the ratio
	` '		by volume.		5 50 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
		(a)	2:1	(b)	3:1
		(c)	2:3	(d)	none of these
	(vii)	Tem	porary hardness is due to the pro	esence of d	issolved bicarbonates of
		(a)	calcium and magnesium	(b)	magnesium and potassium
		(c)	calcium and sodium	(d)	potassium and magnesium

Write	T for true and F for false statements.:	[136]
1.	We do not need water for domestic purposes	
2.	About 50 per cent of earth's surface is covered with water.	
3.	Pure water is neutral as it does not change colour of the litmus paper	
4.	Hydrated salts are used for absorbing moisture in the bottle.	
5.	Permanent hardness can be removed by simple boiling of water.	
Fill in	the blanks:	[137]
1.	showed that we can produce water by ir	ntroducing an
	electric spark thought a mixture of two volumes of hydrogen and one vo	lume of oxyge
2.	The solution in which no more solute can be dissolved at a given temper	rature is calle
3.	Depending upon the size of the particles, solutions are classified as	
	, colloidal solution, and	
4.	At a given temperature, different substances dissolve to	
	extents in the same of a given solvent.	
5.	When hydrated salts are heated, they lose their	·
Give r	easons for the following:	[137]
1.	Water is a universal solvent.	
2.	Silica get packs are used in bottles.	
Answe	er the following questions:  What are the different uses of water?	[137]
13		
2. Ans-	Describe any three chemical properties of water.	
WI 12-		

L	Distinguish between suspensions and colloids.
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V	Vhat do you mean by supersaturated solution?
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/	Vhat is water of crystallization? How can we make crystals of copper sulphate?
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_	
_	
_	Describe the effect of heat on hydrated salts with the help of a suitable example
	reserved the effect of fleat of frydrated saits with the fielp of a suitable example
_	
_	
_	

7.

	Ans-	we treat th	nem?		
	A113-				
	8. Ans-	Write any	two disa	advantages of using hard water.	
	7 1113				
[F]	Comp	lete the give	en equat	ions:	[137]
	1.		I <sub>2</sub> O	<b>→</b>	
	2. Cu	SO <sub>4</sub> .5H <sub>2</sub> O Blue crystals	Heat Cool	<u> </u>	
	3.	MgSO <sub>4</sub>	+	$Na_2CO_3 \rightarrow $	
	4.	CaSO <sub>4</sub>			
				Chapter - 9 [Carbon and its Compounds]	
	Point:				[400]
[A]	Answe	er the follow			[139]
	Ans.			ous forms of carbon that are present around us?	
	7 (113)				
	2.	Name two	naturall	ly occurring forms of carbon.	
	Ans.				

3. Ans.	What are organic compounds? How do these differ from inorganic compounds?
Answe 1. Ans.	er the following questions: [144-145]  What are the various forms of carbon that are present around us?
2. Ans.	Name two naturally occurring forms of carbon.
3. Ans.	What is allotropy?
4. Ans.	Explain why diamond is hard in light?
5. Ans.	What is carbon cycle? Draw a neat, well-labelled digram to show it.
	Ans.  Answer  1.  Ans.  2.  Ans.  4.  Ans.

\	Why is graphite used as a solid lubricant?
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١	What makes graphite suitable for use as an electrode?
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-	Sate two important uses of each diamond and graphite.
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_	
-	
	Why the name fullerene has been given to the allotrope containing 60 atoms joined in it molecule?
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_	
_	
	State some possible uses of fullerenes in future.
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-	
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-	4b - 6-U
ŀ	the following questions: [147]  How is the structure of amorphous carbon different from those of crystalline forms of carbon?
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[C]

Give the names of different amorphous forms of carbon.  State the uses of Charcoal:  Animal charcoal:  Coke:  An organic substance is completely burnt in the absence of air. Which one of the following substances is likely to be formed?  (a) Graphite (b) Amorphous carbon  What is gas carbon?	State the uses of Charcoal:  Animal charcoal:  Coke:  An organic substance is completely burnt in the absence of air. Which one of the following substances is likely to be formed?  (a) Graphite  (b) Amorphous carbon		
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What is gas carbon?	What is gas carbon?		
What is gas carbon?	What is gas carbon?		
What is gas carbon?	What is gas carbon?		
What is gas carbon?	What is gas carbon?		
What is gas carbon?	What is gas carbon?		
What is gas carbon?	What is gas carbon?		
		What	is gas carbon?

[D]	Answ	swer the following questions:						
	1. Ans.	Disc	uss the poisonous nature of	carbon monoxi	de.			
	2.	Writ	e one reducing property of	carbon monoxid	e.			
	Ans.							
	3.	Nam	e the scheme launched by	Government of I	ndia for promotion of LPG	G in rural areas.		
	Ans.							
Keyw	ords:					[153]		
Allotr	ору:							
Asph	yxia:							
•		n:						
Exerc						[154-155]		
[A]		•	noice Questions:			[154]		
	(i)		valency of carbon is	(b)	2			
		(a) (c)	1 3	(b) (d)	2			
	(ii)		hardest allotrope of carbon		4			
	(11)	(a)	diamond	(b)	graphite			
		(c)	coke	(d)	gas carbon			
	(iii)		graphite on heating at 700°					
	()	(a)	carbon dioxide	(b)	carbon monoxide			
		(c)	carbonyl chloride	(d)	none of these			
	(iv)		d charcoal is used					
		(a)	in gas mask	(b)	as a pesticides			
		(c)	in making jewellery	(d)	in cutting diamonds			
	(v)	The	compounds which are rich	in carbon on bui	rning produce			
		(a)	lampblack	(b)	petrol			
		(c)	oxygen	(d)	none of these			
	(vi)	Whe						
		carry	ying capacity of the blood.					
		(a)	carbon dioxide	(b)	water			
		(c)	oxygen	(d)	nitrogen			

Fill in	the blanks:			[154]
1.	The allotrope of carbon	used for (	cutting glass is	<del>.</del>
2.	The soft crystalline form	n of carbo	on is	·
3.	Lampblack, charcoal an	d coal ar	e	_ forms of carbon.
4.	Charcoal is a good		agent.	
5.	Carbon dioxide turns		milky.	
6.		is the co	ndition caused due to la	ck of oxygen and excess of
	carbon dioxide in the bl	ood.		
Match	n the column A with colur	mn B:		[154]
	Column A		Column B	
1.	Diamond, Graphite	a.	carbon monoxide pois	soning
2.	Asphyxia	b.	amorphous carbon	
3.	Charcoal, soot	C.	by extreme heating o	f graphite
4.	Fullerene	d.	crystalline carbon	
Answe	er in one or two words:			[155]
1.	An element present in a	all living	things.	
2.	Hardest substance used	l in jewel	lery.	
3.	A gas that turns limewa	ater milky	y.	
4.	A clean fuel.			
5.	Poisonous gas present in	n vehicul	ar exhaust.	
Answe	er the following questions	 S:		[155]
1.	What is allotropy? Write		ant allotropes of carbon.	
Ans.		•	·	
2. Ans.	What are the important	uses of c	charcoal?	
	What are the important	uses of c	charcoal?	

	Why do we use coke not coal for making iron?
	Why is diamond rarer in nature than graphite?
	Demonstrate the process of preparation of carbon dioxide in laboratory.
	Describe the conditions for burning of fuels that lead to formation of carbon monoxide.
•	

Why carbon monoxide is known as poisonous gas?  Explain the following:  Carbon monoxide acts as a reducing agent for extraction of metals.  Combustion of traditional fuels have harmful effects on health and environment initiative for promotion of LPG in rural areas.		Write any four uses of carbon monoxide.
Explain the following:  Carbon monoxide acts as a reducing agent for extraction of metals.  Combustion of traditional fuels have harmful effects on health and environment		
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Combustion of traditional fuels have harmful effects on health and environment		Explain the following :
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Government initiative for promotion of LPG in rural areas.		Combustion of traditional fuels have harmful effects on health and environment
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