## **3rd Term Worksheet [2018 – 19]**

## Subject - Chemistry Class - VII

Name	:	Sec.:	
		<u>Chapter – 4</u>	
Check	Doint:	[Atomic Structure]	[91]
[A]		e the appropriate word from the bracket and complete statements:	[91]
[/]	1.	Most non-metals are (bad/good) conductors of heat.	[71]
	2.	Metals are (softer/harder) than non-metals.	
	3.		
		Melting points of most non-metals is (lower/higher) than that of metals.  (Metals/Non-metals) show lusture.	
	<ul><li>4.</li><li>5.</li></ul>		
	5.	The property that allows the metals to be hammered into their sheets is called	
[D]	Chia a	(ductility/malleability).	[00]
[B]		ne word for the following:	[92]
	1.	Name a metal which is liquid at ordinary temperatures.	
	2.	Name a non-metal which is shiny and conducts electricity well.	
	3.	Name a non-metal that has high density.	
	4.	Name a metal which is not ductile at ordinary temperatures.	
	5.	Name two metals which are highly malleable and highly ductile.	
[C]	Answe	er the following questions:	 [96]
	1.	Why is aluminium used in making of aeroplanes?	
	Ans.		
	2.	Explain the use of chlorine in water purification plants.	
	Ans.		
	3.	Why is tincture iodine applied on wounds?	
	Ans.		

Why is	helium filled in balloons?	
State	ne important use of gold.	
State	the important use or gold.	
		·
State t	wo uses of copper.	
Give to	vo uses of silver.	
er the fo	llowing questions:	[103]
	s rusting? What are the ways to retard this process?	
	3	

[D]

Why does an aluminium vessel loose its shine so soon after use?

2.

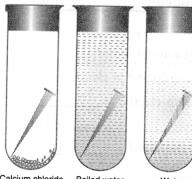
	Ans.						
	3. Ans.		e a common metal whic			rusting.	
	4.	Whic	h one of the following m	naterials is mos	t likely	y to be corroded?	
		a.	a wooden plank	k	<b>)</b> .	a steel chair	
	٥	C.	an exposed iron rod	(	d.	an iron rod coated with oil	
	Ans-						
Keyw							[103]
Alloys							
Corro	SION:						
Ductil	lity:						
Electr	oplatin	g:					
Malle	ability:						
Metal	S:						
Metal	loids:						
Non-n	netals:						
Rustir							
Exerc							[104-106]
[A]	-		oice Questions:				[104]
	(i)	(a)	Is are usually shiny	,	(b)	dull lustre	
		(a) (c)	bad conductor of elec			none of these	
	(ii)			-		ils or non-metals is called	
	(11)	(a)	a metalloid			a compound	
		(a) (c)	an alloy			none of these	
	(iii)		ch of the following meta			Horio of those	
	(111)		silicon			conner	
		(a)	aluminium			copper	
		(c)	aiuiiiiiiuiii		(d)	zinc	

(17)	willer or the following non-metal	is used iii wed		a1100115:	
	(a) carbon	(b)	brom	ine	
	(c) hydrogen	(d)	heliu	m	
(v)	Chemically, rust is	in na	ature.		
	(a) acidic	(b)	basic		
	(c) neutral	(d)	none	of these	
(vi)	Rust is the hydrated oxide of				
	(a) chlorine	(b)	alum	inium	
	(c) iron	(d)	tungs	sten	
Fill ir	n the blanks:				[105]
1.	is the	hardest know	n mate	rial.	
2.	Graphite is	conducto	or of ele	ectricity.	
3.	Zinc is			3	
	temperature.				_
4.	Sodium and potassium are very _			to cut.	
5.	Tungsten and antimony are exam				
	two uses of each of the following:				[105]
1.					
2.	Copper :				
3.	Bromine :				
0.					
4.	lodine :				
5.	Germanium :				
Matc	th the column A with the column B:				[105]
	Column A			Column B	
1.	Good conductors of heat		a.	Metalloids	
2.	Share characteristics of metals ar	nd non-metals		Rust	
3.	Hydrated ferric oxide		C.	Non-metals	
4.	Eating away of iron		d.	Metals	
5.	Do not reflect light well		e.	Corrosion	
	ver the following questions:		0.	00.100101	[105]
Angu	How do elements classify into me	tals and non m	netals?		[100]
		tais ai iu HUH-H	nctals:		
1.	riow do elements classify into me				
1.					

Write any three important properties of metals and non-metals.	
List the uses of any two metals and non-metals.	
Differentiate between metals and non-metals.	
How will you prove that the given substance is a good conductor of elec	ctricity?
What are metalloids? Give examples and write uses of any two metallo	oids.

What is r	usting? Writ	te the word	equation	for the proc	ess.	
What are	the method:	s used to pr	event rust	ting?		
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What are	the methods	s used to pr	event rust	ting?		 
What are	the methods	s used to pr	event rus	ting? 		
What are	the method:	s used to pr	event rus	ting?		
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[F] Carefully observe the diagram and answer the following questions:



	1. Ans.	What does the set up show? Calcium chloride Boiled water Water	
	2.	Why the test tube containing calcium chloride and iron nail does not rusted?	
	3.	Which of these text tubes show the rusted iron nail and why?	
Check	Point:	<u>Chapter - 7</u> [Air and Atmosphere]	[116]
[A]		er the following questions:	[110]
	1. Ans.	Who discovered oxygen?	
	2. Ans.	Name the most abundant element in the earth's crust.	
	3. Ans.	How would you prepare oxygen gas in laboratory?	
	4. Ans.	Describe physical and chemical properties of oxygen.	

List some important uses of oxygen.
What is a catalyst? Give an example.
What is oxyacctylene flame? Give its use.
What is expandificate flame. Give its use.
What is respiration?
What is photosynthesis?

[B] Answer the following questions: [121]  1. Name five components of air.  Ans.  2. Write any two uses of carbon dioxide.  Ans.  3. Write some uses of nitrogen.  Ans.  4. How nitrogen is balanced in air?  Ans.  5. List the inert gases.  Ans.  Keywords: [123]  Acid rain: Oxidation:  Ignition temperature: [123]	10 Ar		
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Ans.  Keywords:  Coxidation:  Ignition temperature:		_	
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Acid rain:  Oxidation:  Ignition temperature:			
Acid rain:  Oxidation:  Ignition temperature:			
Ignition temperature:			[123]
	Oxidation	n:	
Global warming:	Ignition t	emperature:	
	Global wa	arming:	

Exerc	ise:		<b>,</b>	,		[124-126]
[A]	Multi	ple Ch	noice Questions:			[124]
	(i)	On l	heating which of the following compo	und wi	II give maximum amount of	oxygen?
		(a)	HgO	(b)	KNO <sub>3</sub>	
		(c)	KCIO₃	(d)	KMnO <sub>4</sub>	
	(ii)	The	catalyst among the following is			
		(a)	MnO <sub>2</sub>	(b)	KNO <sub>2</sub>	
		(c)	KMnO <sub>4</sub>	(d)	KCIO <sub>3</sub>	
	(iii)	A glo	owing splinter brought in a jar full of	oxyger	ı will	
		(a)	stop glowing at once	(b)	burns into flames	
		(c)	give out smoke	(d)	none of these	
	(iv)	A ga	s which neither burns nor supports b	ourning	is	
		(a)	oxygen	(b)	chlorine	
		(c)	hydrogen	(d)	carbon dioxide	
	(v)	The	e inert gas among the following is			
		(a)	oxygen	(b)	hydrogen	
		(c)	argon	(d)	carbon dioxide	
	(vi)	In fii	re extinguishers, the gas used is			
		(a)	oxygen	(b)	carbon dioxide	
		(c)	nitrogen	(d)	water gas	
	(vii)	Duri	ng photosynthesis, the gas released	is		
		(a)	oxygen	(b)	carbon dioxide	
		(c)	nitrogen	(d)	none of these	
	(viii)	A ca	talyst			
		(a)	changes rate of chemical reaction	(b)	reacts with the reactants	
		(c)	do not react with the reactants	(d)	none of these	
	(ix)	Harr	mful substances present in air are ca	lled		
		(a)	pollutants	(b)	microbes	
		(c)	noble gases	(d)	other constituents of air	
[B]	Fill in	the b	lanks:			[124-125]
	1.	Oxy	gen is prepared in the laboratory by I	neating	·	
	2.	For \	welding metals, the gases used are $\_$		and	
			or		·	
	3.	The	amount of water vapour in the air is	called <sub>-</sub>		
	4.		gas present in the largest amount in			
	5.	Duri	ng photosynthesis	g	as is used up and	
			gas is formed.			
[C]	Give a	answe	r in one word:			[125]
	1.	The	most abundant element on earth			
	2.	The	process of manufacturing ammonia f	rom nit	rogen gas.	
	3.	The	major component of air that does not	suppor	rt burning.	
	4.		s required by plants for photosynthe	sis.		

	5.	A gas discovered by Priestley.			
[D]	State	whether the following statements	s are tru	ue or false: rewrite the false statem	ents correctly:
	1.	Helium is lightest gas			
	2.	Nitrogen is slightly heavier than	n air		
	3.	Oxygen is the most abundant el	ement c	on earth	
	4.	Carbon dioxide was first produc	ed by L	ord Raleigh	
	5.	Antoine Lavoisier discovered ni	trogen. <sub>.</sub>		
[E]	Matcl	h the column A with the column E	3:		[125]
		Column A		Column B	
	1.	Catalyst	a.	Rusting of iron	
	2.	Slow oxidation	b.	Argon	
	3.	Mixture	C.	Manganese dioxide (MnO <sub>2</sub> )	
	4.	Inert gas	d.	Air	
	5.	Dry ice	e.	Oxygen is released	
	6.	In photosynthesis	f.	Solid CO <sub>2</sub>	
[F]	Comp	plete these chemical equations:			[125]
	1.	$2 Mg + O_2 \rightarrow \underline{\hspace{1cm}}$			
	2.	$6CO_2 + 12H_2O \rightarrow C_6H_{12}O_6 + 6H_2$	20 +		
[G]	Give	reason for the following:			[125]
	1.			nd to store living cells and tissues.	
	2.	Carbon dioxide is used in fire ex	ctinguis	hers.	
	3.	When magnesium is burned in o	oxygen,	the product formed becomes heavy.	

4.	Clothes do not dry on a cloudy day.
Λροιν	er the following guestions:
1. Ans-	er the following questions: [125]  Describe a simple experiment to show that oxygen is needed for burning.
2.	What is photosynthesis?
Ans-	
3. Ans-	Explain how oxygen gas can be prepared in the laboratory using potassium chlorat
4.	What is acid rain? What causes acid rain?

١	Write the differences between combustion and rusting.
	What is corrosion? Write steps to prevent rusting.
-	
•	
•	
	Which of the following substances, when present in air, causes air pollution? Water vapour, carbon monoxide, lead, carbon dioxide, sulphate dioxide, CFCs, nitrogen, oxygen.

8.

Describe how acid	ain affects the Indian heritage. Give an example. Also explair	า
	tives towards the problem.	