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Chemistry
Practice Test
Max Marks: 60

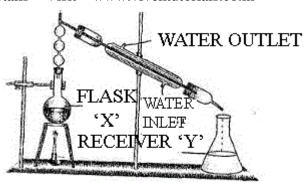
Date: 07/Apr/2019 Grade: 8th (ICSE) Time: 1Hr

Elements Compounds & Mixtures

	Choose the correct alternative:				
1.	The metal which does not react with dilute H ₂ SO ₄	1			
	(a) Mg (b) Zn (c) Al (d) Hg				
2.	is used as an electrode in dry cell.	1			
	(a) Zinc (b) Iron (c) Mercury (d) Aluminium				
3.	In the blast furnace iron oxide is reduced by	1			
	(a) Lime stone (b) Calcium silicate				
	(c) Carbon monoxide (d) Carbon dioxide				
4.	Silver articles become black on prolonged exposure to air. This is due to the formation of	1			
	(a) AgCN (b) Ag ₂ O (c) Ag ₂ S (d) Ag ₂ S and AgCN				
5.	Which of the following methods is suitable for preventing an iron frying pan from rusting?	1			
	(a) Applying grease (b) Applying paint				
	(c) Applying a coating of zinc (d) All the above				
	Fill in the blanks:	1			
	Dust in air is an example of mixture.	1 1			
	An example of a monoatomic molecule is	1			
	A non-metal which is good conductor of electricity is	1			
10.	Collector used in froth floatation process is	1			
	Name the following:				
11	Name two metals which are found in nature in free state.	1			
	Name the metal whose foils are used for packing of food materials.	1			
	Name two metals which cannot displace hydrogen from dilute acids.	1			
	Name an acid with which iron is rendered passive.	1			
	Name two metals which do not corrode easily.	1			
15.	Traine two metals which do not confode easily.	1			
	Answer the following in one or two sentences:				
16.	'Non-metals are good oxidising agents': Justify this statement.	1			
	Why non-metals are electronegative?	1			
	Arrange the following metals in order of their decreasing reactivity: Fe, Zn, Ca, Mg,	1			
	Cu, Ag.				
19.	An element reacts with oxygen to form an oxide which dissolves in dilute hydrochloric acid. The	1			
	oxide formed also turns moist red litmus blue. Is the element a metal or a non-metal?				
20.	In the extraction of iron, a mixture of limestone, coke and iron is added to the blast furnace. In this	1			
	context, give the equation for the reduction of iron ore.				

21.	Attempt the following: Give reasons: Components in a mixture can be separated by physical methods only.	2
22.	Give reasons: Centrifugation can be used for separating an insoluble heavier solid, present in an - insoluble solid-liquid mixture.	2
23.	Give reasons: Brass & bronze are examples of mixtures, while copper sulphate & lead nitrate are examples of compounds.	2
24.	'An atom is the basic unit of an element'. Draw a diagram of an atom - divisible as seen today.	2
25.	You are given a hammer, a battery, a bulb, wires and a switch: (a) How could you use them to distinguish between the samples of metals and non-metals? (b) Assess the usefulness of these tests to distinguish between metals and non-metals?	2
26	Attempt the following:	2
20.	Define the terms elements, compounds & mixtures with a view to show their basic difference.	3
27.	Explain the term 'mixture'. Differentiate between homogenous &heterogeneous mixtures. State why brass is considered as a homogenous mixture while a mixture of iron & sulphur - heterogeneous. Give an example of two liquids which form (a) homogenous (b) heterogeneous -mixtures.	3
28	State any one method to separate the following mixtures-	3
20.	 (a) Two solid mixtures one of which directly changes into vapour on heating. (b) Two solid mixtures one of which dissolves in a particular solvent and other does not. (c) A solid-liquid mixture containing an insoluble solid in the liquid component. 	J
29.	State any one method to separate the following mixtures- (a) A liquid-gas mixture containing a gas dissolved in a liquid component. (b) A gas-gas mixture containing two gases with different densities. (c) A mixture of different solid constituents in a liquid constituent.	3
30.	Attempt the following: 'The modern periodic table consists of elements arranged according to their increasing atomic numbers'. With reference to elements with atomic numbers 1 to 20 only in the periodic table - differentiate them into - metallic elements, metalloids, non-metals & noble gases.	4
31.	Define the term 'compound'. In the compound carbon dioxide-the elements carbon & oxygen are combined in a fixed ratio. Explain.	4
32.	Attempt the following: The diagram represents fractional distillation for separation of mixtures. Answer the following:	5

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- 1. Can two immiscible liquids be separated by this process?
- 2. Separation of liquids by this process is based on which physical property?
- 3. If methyl alcohol & water are to be separated, which liquid would remain in flask 'X' after condensation?
- 4. Give a reason for the above answer.
- 5. State the purpose of the fractionating column in the apparatus.

33.	Match the items given in Column 'A' with those	given in Column 'B'	5
	Column-A	Column-B	
	1. Alloy used in making machine parts.	(a) Bauxite	
	2. Deficiency of non-metal causes goitre.	(b) Steel	
	3. Non-metal used in manufacture of DDT.	(c) Iodine	
	4. Ore of copper.	(d) Copper pyrites	
	5. Alloy of mercury.	(e) Duralumin	
	6. Ore of iron.	(f) White phosphorus	
	7. Alloy of iron with carbon.	(g) Chlorine	
	8. Alloy used in aeroplane parts.	(h) Amalgam	
	9. Ore of aluminium.	(i) Haematite	
	10. Rat poison.	(j) Magnelium	

----- All the Best -----