CLASS VIII – SCIENCE – CHAPTER 14 CHEMICAL EFFECTS OF ELECTRIC CURRENT

Name: Date: **01**. Which of the following will conduct electricity? (c). distilled water (d). all the above (a). pure water (b). impure water 02. LED is: -(a). light emitting diode (b). light evolving diode (c). light eliminating diode (d). light entering diode 03. An electrolytic cell converts: -(a). electrical energy to light energy (b). chemical energy to electrical energy (c). chemical energy to light energy (d). electrical energy to chemical energy 04. An electric current is generated due to: -(a). flowing protons (b). flowing neutrons (c). flowing electrons (d). all the above **05**. Sugar solution is an: -(a). electrolyte (b). non electrolyte (c). cation (d). anion 06. Effect/s of electric current includes: -(a). chemical effect (b). magnetic effect (c). heating effect (d). all the above 07. Lime water conducts electricity because: -(a). it is acidic in nature (b). it is basic in nature (d). it is a salt (c), it is neutral in nature 08. Protons are: -(a). negatively charged particles (b). uncharged particles (d). particles not found in an atom (c). positively charged particles **09**. A charged atom is called as: -(a). ion (b). element (c). compound (d). complex 10. Plastic coating on wires is a: -(a). conducting material (b). electroplating material (d). atomic nucleus material (c). insulating material **11**. Which of the following will not conduct electricity? (b). glucose solution (c). pure water (d). all the above (a). distilled water **12**. A non-metal that conducts electricity is: -(a). graphite (b). diamond (c). Sulphur (d). nitrogen 13. During electrolysis of water, hydrogen gas collects at: -(a). cathode (b). anode (c). diode (d). both electrodes 14. A good conductor of electricity will be: -(b). distilled water + vegetable juice (a). distilled water + common salt (d). all the above (c). distilled water + fruit juice

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15 .	The container which carries electrolyte along with electrodes is called: -						
	(a). electrometer	(b). electrolyter	(c). vo	ltameter	(d). ammeter		
16 .	In the process of ele	ctrolysis of water: -					
	(a). hydrogen gas collects at anode (b). c		(b). ox	xygen gas collects at cathode			
	(c). oxygen gas collects at anode		(d). no	(d). no gases are collected at either electrodes			
17 .	Electrolysis is	effect of electric curre	ent: -				
	(a). magnetic (b). chemical		(c). he	ating	(d). physical		
18 .	18. Iron is electroplated with to protect is from corrosion: -						
	(a). tin	(b). copper	(c). silv	ver	(d). chromium		
19 .	19 . The person who had shown that if electrodes were immersed in water, and a current was passed,						
bubbles of oxygen and hydrogen were produced: -							
	(a). Nicholson (b). Sir Humphrey Davy (C)		vy (c). Fa	raday	(d). Galvani		
Q01	L. Match the column	n: -					
(A). (a). Cathode				i) positively charged ions			
	(b). cations			ii) negative electrode			
(c). <mark>Anode</mark>				iii) resist corrosion			
(d). <mark>anions</mark>				iv) positive electrode			
	(e). <mark>Electroplating</mark>			v) negatively charged ions			
	(B). (a). p <mark>ure wa</mark> ter			i) negatively charged particles			
	(b). anions			ii) good conductor			
	(c). I <mark>mpure w</mark> ater			iii) positively charged particles			
	(d). aqueous solution			iv) distilled water			
	(e). <mark>cations</mark>			v) dissolutio	n in water		
	(C). (a). l <mark>ead</mark>			i) electrolyte			
	(b). <mark>chloride i</mark>	ons		ii) insulator			
	(c). sodium ions			iii) conductor			
	(d). glass			iv) anion			
	(e). common	salt		v) cation			
(D). (a). electro deposition i) ionize partially							
(b). weak electrolyte			ii) collect on positively charged electrode				
	(c). cations			iii) ionize completely			
	(d). anions			iv) electroplating			
	(e). strong electrolyte			v) collect on negatively charged electrode			
	(-,			,			

(E). Salt	At cathode
(a). sodium chloride	i) copper
(b). lead nitrate	ii) silver
(c). copper sulphate	iii) aluminium
(d). silver nitrate	iv) lead
(e). Aluminium chloride	v) hydrogen gas

Q02. Fill in the blanks: -

(a). An electric current can bring about a _____ change.

(b). An ______ when dissolved in water, breaks up into ions.

- (c). _____ are materials that allow electricity to flow through them.
- (d). _____ are also called as insulators.
- (e). A source of electricity is called a _____
- (f). Electrolysis is used for _____ one metal over another metal.
- (g). A combination of cells is known as _____.
- (h). In liquid the moving charges are called _____
- (i). The driving force that carries charges around a circuit is ______ force.
- (j). Electric current is the flow of negatively charged particles called _

Q03. True or false: -

- (a). Every ion has both positive as well as negative charges.
- (b). Electricity is a form of energy.
- (c). Asbestos is a good conductor of electricity.
- (d). Current flows in a closed circuit as well as an open circuit.
- (e). Different LEDs may give out light of different colours.
- (f). Natur<mark>al water</mark> that runs down the hill<mark>s is 100</mark>% pure water.
- (g). Formation of a new chemical compound by electricity is electrolysis.
- (h). Keros<mark>ene is a non</mark> electrolyte.
- (i). Lemon juice is an electrolyte.
- (j). All liquids conduct electricity.
- (k). Passing electric currents through a conducting liquid causes chemical changes.
- (I). Electrolysis is an application of electroplating.
- (m). Vinegar is a conductor of electricity.
- (n). A solution that contains oppositely charged ions conducts electricity.
- (o). Glucose solution is an electrolyte and hence conducts electricity.
- **Q04**. Define electrolysis. Through diagram represent movement of ions during electrolysis.
- **Q05**. Write one important application of electrolysis in our daily life.
- Q06. What is the actual direction of electric current?
- **Q07**. Why is it dangerous to handle electrical appliances with wet hands or while standing on a wet floor ?
- **Q08**. Is electric shock lethal? What should be done in case of electric shock? DCA, PLOT 18 C, SHRI GANGA VIHAR, DEENPUR,

- Q09. What is depleting? How is it useful?
- **Q10**. Are conductors and electrolytes same? If not explain differences between them with examples.
- **Q11**. Purification of metals is possible through electrolysis. Describe this application.
- Q12. Describe the specific features of an LED?
- Q13. Chrome plating is very popular in the industry. What are its pros and cons?
- Q14. Pick the odd word out of the following:
 - (a). salt solution, sugar solution, lime water, tap water, river water.
 - (b). nitric acid, sulphuric acid, carbonic acid, sodium chloride, potassium hydroxide.
 - (c). Sulphur, Quartz, Glass, Brass, Plastic, Dry wood.
- Q12. What conclusion can be drawn from the circuit shown in the image below :

