## St. Andrews Scots Sr. Sec. School

9th Avenue, I.P. Extension, Patparganj, Delhi – 110092 Session: 2022-2023 – Worksheet - 8

Class: VIII	Subject: Science	<b>Topic: Chemical Effects of Electric Current</b>
<ul><li>Q.1. Define these ter</li><li>a) Electrolysis</li><li>b) Electrode</li><li>c) Electrolyte</li><li>d) Electroplating</li></ul>	ms:	
Q.2. Answer in one	word:	
a) Which part of an at	tom is responsible for f	low of current?
b) What type of effect	t of current do the depo	osits of metal on electrodes show?
c) Which effect of cur	rrent causes the bulb to	glow?
d) Which metal is pla	ted on handle bars of c	ycles and rim of wheels?
e) Which part of the b	oulb glows?	
Q.3. Fill in the blank	is:	
a) The object to be ele	ectroplated is taken as _	electrode.
(b) One of the most co	ommon applications of	chemical effect of electric current is
(c) Small amount of a electricity.	mineral salt present na	aturally in water makes it a of
(d) Electroplating of _ give them a shiny app		ne on objects like water taps and cycle bell to
e) discovers	the electrolysis of wate	r.
Q.4. Multiple choice	questions:	
<ul><li>a) When electric curred of the solution. This is</li><li>(i) the chemical effect</li></ul>	ndicates	conducting solution, there is a change of colour

(ii) the heating effect of current.(iii) the magnetic effect of current.(iv) the lightning effect of current.

- b) Bob's uncle has set up an electroplating factory near his village. He should dispose off the waste of the factory
- (i) in the nearby river.
- (ii) in the nearby pond.
- (iii) in the nearby cornfield.
- (iv) according to the disposal guidelines of the local authority
- c) Cooper wire is a
- (i) Good conductor
- (ii) Bad conductor
- (iii) Can be both at different time
- (iv) None of these
- d) Which of these is not a conductor of electricity
- (i) Lemon water
- (ii) Vinegar
- (iii) Honey
- (iv) None of these
- e) An electrolyte is a
- (i) Solids that conducts electricity
- (ii) liquids that does not conduct electricity
- (iii) Solids that does not conduct electricity
- (iv) liquids that conduct electricity

## Q.5. Answer the following questions:

- a) Why does a potato turn green on passing current? Around which terminal is the greenish patch observed?
- b) Why is distilled water an insulator of electricity?
- c) How are tin cans made? Why are tin cans used for storing food items?
- d) Current does not flow in a circuit if there is a gap between the two wires. Does it indicate that air is a poor conductor of electricity? Does air never conduct electricity? Explain.
- e) Why are electric fires extinguished with either using CO<sub>2</sub> extinguisher or mud but not water?