# TELECOM A+B 9/29/15 ASSIGNMENTS

## D.C. THEORY

- 1) READ 1 P. 51-55 TEXT
- 2) TAKE NOTES USING CHAPTER SECTION
  THEADINGS TO HELP UPGANIZE NOTE-TAKING
- 3 LESSON 6 WORKBOOK #1-5, 13-16, 23-25
- (4) PEVIEW PP. 45-51 25 JECLALLY SECTIONS ON CHEMICAL ACTION (BATTERIES) AND ELECTRICITY & LIGHT (TYPES OF BULBS etc)
- (5) GET YOUR BINDER SET-UP

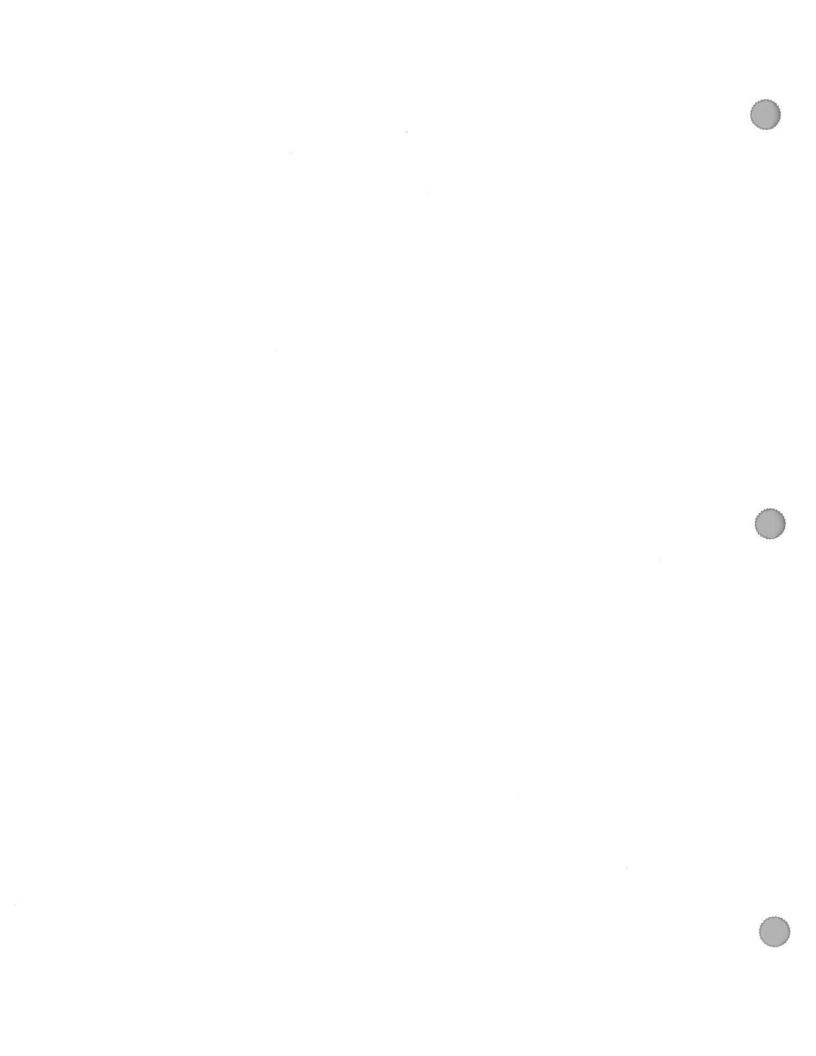
# COMPUTERS

- 1) REVIEW THE FIRST CHAPTER AS
- (2) COMPLETE THE REVIEW SHEET

  TITLED: "CHI COMPUTERS +
- (3) COMPUTER SYSTEMS QUIZ"

  SHORT QUIZ ON CHI NEXTWEEK

  OPEN BINDER
- 4) PREVIEW SKIM READ LESSON 2
  "INPUT OUTPUT AND PROCESSING"
  IN TEXT



DatePer	Name	Date	Per	
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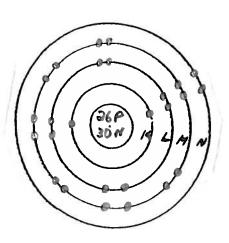
## **BOHR MODELS**

For each element shown, look up the necessary information on the Periodic Table. Then construct a Bohr diagram. Use the sample done as a guide.

SAMPLE:

**IRON** 

26Fe<sup>56</sup> 26P



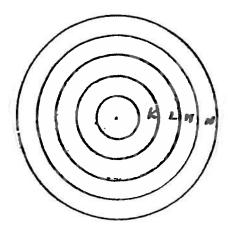
30 N 26 ē

BROMINE

Br \_\_\_\_P \_\_\_N \_\_\_e

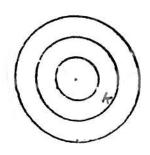
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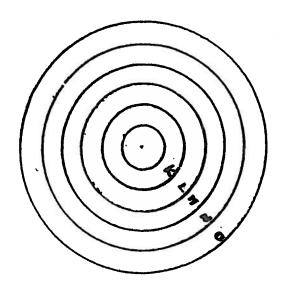
NITROGEN

\_N \_\_\_P \_\_N \_\_\_e

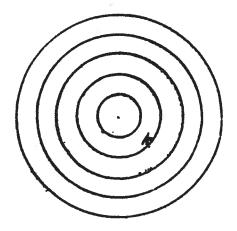




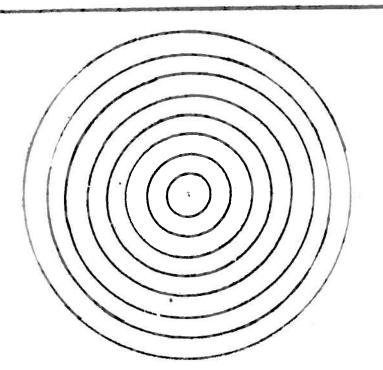
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#### KRYPTON



### RADIUM





## Lesson 6: Electrical Energy Sources

### Reference

1. DC Theory Text (Chapter 2)

## **Introductory Information**

Electrical energy may be produced in several ways and can be utilized by taking advantage of its different effects. When current flows through an electric range element the heat produced is useful and desirable. When current flows through an electric motor, heat produced is undesirable but its magnetic effect is useful.

Work toward understanding the principles by which all electrical devices operate.

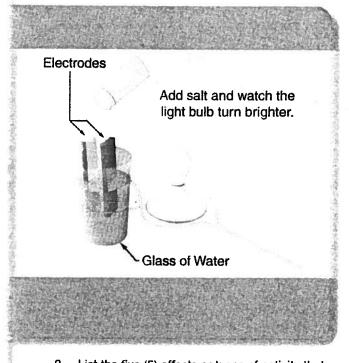
## **Learning Objectives**

After completing this lesson, you will be able to:

- 1. Identify and describe the different means of producing electric current.
- 2. Describe the makeup of a battery and explain how to determine polarity.
- 3. Explain how electricity can create heat and light.

#### Questions

 Name six (6) methods that can be employed to force electrons out of their valence ring producing electrical current.



List the five (5) effects or types of activity that can be produced by electrical energy.

- 3. What type of electricity or electrical charge can be created by rubbing one type of material against a different type of material?
- 4. Friction is a source of \_?\_.
- 5. The chemical source of electricity is best represented in our daily lives by the \_\_?\_.

## **Electrical Energy Sources**

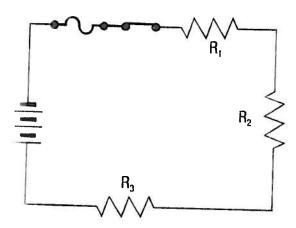
6. Draw a 3-cell battery.

13. List several applications where heat from electricity is a desired outcome.

- 14. Define Thermoelectricity.
- 7. What determines the individual cell voltage of a battery?
- 15. A(n) ? is very common in gas appliances such as water heaters.
- 8. When aluminum and silver are used for a battery cell, which metal will be the negative electrode? Why?
- 16. Electricity created by stress or pressure in a material is called \_?\_.
- 17. Light has small particles of energy called \_?\_.
- Name the two (2) categories that batteries are divided into.
- 18. A photocell is a device that operates on which photoelectric effect?
- 10. Which type of battery cell can be recharged several times?
- 19. Explain how the incandescent lamp works.
- 11. 2 is generated any time current flows through a wire.
- 20. List four (4) other types of light producing devices, besides the incandescent lamp.
- 12. Why are metals such as copper and aluminum used as conductors?

# Lesson 6 Electrical Energy Sources

- 21. How many elements are in a three-way light?
  - 23. Underrating a cable can cause the insulation for the cable to ?\_.
- 22. Show the current direction and label the negative and positive points for each of the loads and the battery on the circuit below.



- 24. The \_ ? \_ of a conductor is the maximum current the conductor can carry safely without exceeding its temperature rating.
- 25. The \_ ? requires branch-circuit conductors to have an ampacity ? the non-continuous load plus \_ ? \_ of the continuous load.

# Discussion Topic

What advantages are there for the customer in contracting with a NECA contractor employing IBEW craft workers?

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NAME			
	GROUP	DATE	

# Ch.1 Computers and Computer Systems Quiz

	PAM
MB	RAM ROM
G	KOM
Hz	ALU DATA
CD-R	Blu-rayBlu-ray
<b>3.</b>	
. What is a Hertz (Hz)?	CPU2
The two primary sections of the CPU a	re the and the
i water would be 10	und on the computer's motherboard.
Name the components that would be for As many as possible.)	
As many as possible.)	
As many as possible.)	1.0cm   10cm   1

(HINT: IPOS)		
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	The instruction is the instruction instruction	
	- 18	
<u> </u>	3. 4. 7. 8. 9.	
6		
nat is this cycle calle	ed?	
w does it relate to th	ne computer's speed?	