University of Bejaia Department of Technology Level: 1st year LMD Year: 2017/2018 Duration: 1h30 Family name..... First name.... Section/Group.....

#### First Term Exam of English

#### Text:

Electricity is the flow of electrical power or charge. It is a secondary energy source which means that we get it from the conversion of other sources of energy, like coal, natural gas, oil, nuclear power and other natural sources, which are called primary sources. The energy sources we use to make electricity can be renewable or non-renewable, but electricity itself is neither renewable or non-renewable.

Electricity is a basic part of nature and it is one of our most widely used forms of energy. Many cities and towns were built alongside waterfalls (a primary source of mechanical energy) that turned water wheels to perform work. Before electricity generation began over 100 years ago, houses were lit with kerosene lamps, food was cooled in iceboxes, and rooms were warmed by wood-burning or coal-burning stoves. Beginning with Benjamin Franklin's experiment with a kite one stormy night in Philadelphia, the principles of electricity gradually became understood. Thomas Edison helped change everyone's life -- he perfected his invention -- the electric light bulb. Prior to 1879, direct current (DC) electricity had been used in arc lights for outdoor lighting. In the late-1800s, Nikola Tesla pioneered the generation, transmission, and use of alternating current (AC) electricity, which can be transmitted over much greater distances than direct current. Tesla's inventions used electricity to bring indoor lighting to our homes and to power industrial machines.

I- 1-	Reading Comprehension: Give a suitable title to the text.	(6.5 pts)	(1 pt)
	What is electricity?	Written Expression: (3pts conter the following sentences by 1	(2pts)
b-	When did electricity generation star	and can wander freely between atoms	- Filedro atoms
	Give synonyms to the following wor a- Began =	b- transmitted=	(1pt)
	Give opposites to the following word a- Light = /=	<b>b-</b> warm =/=	( )
- 5-	<ul> <li>Say whether the following statement</li> <li>a- Electricity is not considered as a bit</li> <li>b- Direct current (DC) electricity has</li> </ul>	asic part of nature.	curren
	c- The energy sources we use to mak	e electricity can be renewable or non-	renewable.

II- Mastery of Language:	(9.5 pts)	of Technology D	
1- Transcribe the following words:		dM.I 1	(2pt)

- Water:
- Direct:
- Can :
- Much:

#### 2- Give from the text two nouns for each type.

Proper Noun	Compound Noun	Common Noun
primary sources. The ener	ural sources, which are called	nuclear power and other part
	an be renewable or non-rene	we use to make electricity of
		renewable or non-renewable

3- Pick up from the text four words in the plural.

writerfalls (a primary source of mechanical

(2pts)

(3nts)

## 4- Put the following verbs in the past simple tense:

(2pts)

- Last year I ...... (go) to England on holiday.
  - We ...... (walk) in the streets of London, yesterday morning.
  - The weather ...... (be) strangely fine in the morning.
- 5- Classify the following words according to the pronunciation of the final "s": (1.5pts) Chips - sandwiches - news - lights- chooses - seasons.

/s/	/z/	/iz/
	orehension: (6.5 pts)	
	o the lext.	1- Give a suitable title

## III- Written Expression: (3pts)

Reorder the following sentences by putting the right number between brackets for each sentence in order to form a coherent paragraph.

- Electrons of many elements, particularly metals, are easily knocked off from their parent atoms and can wander freely between atoms. ( )
- An electron is two thousand times smaller in mass than a proton, but its electrical charge is equal to that of a proton. ( )
- These opposite charges attract, whereas particles with similar charges repel each other.
- However, the flow of electric current cannot take place until the circuit is completed.
   ( )
- If a state of unbalanced charges exists, then a necessary condition to create an electric
- current also exists. ( ) employed to the oldest of the benefits
- Electricity is created when particles become charged. Some are negatively charged (electrons), and some are positively charged (protons). ( )

#### **BEST OF LUCK**

University of Bejaia Department of Technology Level: 1st year LMD Year: 2017/2018 Duration: 1h30

# Correction of the first term exam

I- Reading Comprehension: (6.5 pts)

1- The title of the text . (1 pt) Electricity.

### 2- Answer the following questions: (2pts)

## a- What is electricity?

- Electricity is the flow of electrical power or charge.
- It is a secondary energy source which means that we get it from the conversion of other sources of energy, like coal, natural gas, oil, nuclear power and other natural sources, which are called primary sources.

#### b- When did electricity generation started?

- Electricity generation began over 100 years ago.
- 3- Give synonyms to the following words: (1pt)
  a- Began = started
  b- transmitted = emitted, sent out, distributed
- 4- Give opposites to the following words: (1pt)
  a- Light = /= dark b- warm =/= cold

## 5- Say whether the following statements are true or false: (1.5 pts) \*0.5x3

- a- Electricity is not considered as a basic part of nature. FALSE
- b- Direct current (DC) electricity had been used in arc lights for outdoor lighting. TRUE
- c- The energy sources we use to make electricity can be renewable or non-renewable. TRUE
  - II- Mastery of Language: (9.5 pts)

1- Transcribe the following words: (2pt) \*0.5x4

- Water: / wota/, /wata/
- Direct: /dɪ'rɛkt/
- Can : /kæn/
- Much: /matf/

#### 2- Give from the text two nouns for each type.

Propre NounCompound NounCommon NounThomas EdisonIceboxescitiesBenjamin Franklinwaterfallstowns

(3pts) \*0.5x6

3- Pick up from the text four words in the plural. (2pts) \*0.5x4 Cities – towns – homes – sources –

- 4- Put the following verbs in the past simple tense: (2pts) \*0.5x4
  - Last year I went to England on holiday.
  - We walked in the streets of London, yesterday morning.
  - The weather was strangely fine in the morning.
  - Where did you spend your last holiday?
- 5- Classify the following words according to the pronunciation of the final "s": (1.5pts) 0.25x6

/s/	/z/	/iz/
Chips	Wears	Chooses
Lights	Seasons	sandwiches

## III- Writing Expression: (3pts) Reordering the sentences of form a coherent paragraph.

- Electricity is created when particles become charged. Some are negatively charged (electrons), and some are positively charged (protons). (1)
- These opposite charges attract, whereas particles with similar charges repel each other. (2)
- An electron is two thousand times smaller in mass than a proton, but its electrical charge is equal to that of a proton. (3)
- Electrons of many elements, particularly metals, are easily knocked off from their parent atoms and can wander freely between atoms. (4)
- If a state of unbalanced charges exists, then a necessary condition to create an electric current also exists. (5)
- However, the flow of electric current cannot take place ssuntil the circuit is completed. (6)