

First year Electrical Make-up Exam

Subject: English Year: 2013-2014 Time: 2 hours

Pages: 2

Part I- Text Book

Answer the following questions:

1- What charcterizes good insulators?

2is the lowest temperature theoritically possible, characterized by
complete absence of heat. (Complete)
3- How can acids be classified?
4- A molecule of hydrochloric acid contains one atom of hydrogen. (True/ False)
5- Give examples of different applications of GPS.
6- An alarm sounds to (prevent/ ensure/ enable) that you don't lose track where you were. (Choose)
7- Name a number of things that could be raised into space by a space elevator.
8- Mind (in/ out/ on)! Someone's left some boxes on the floor. (Choose)
9- Give words or expressions similar in meaning to:
A) Ascend B) Connecting
10- You mustn't store chemicals in milk bottles. If, someone may
get poisoned. (Complete)
Part II- Grammar and Structure
1- (There/ It/ Their) might be a lot of dust. (Choose)
2- Slag consists of waste materials and impurities which rise to the top of melted metals.
(Make a question)
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Part III: Reading comprehension

Read the following passage then answer the questions below:

The word LASER was <u>coined</u> as an acronym for Light Amplification by the Stimulated Emission of Radiation. Ordinary light, from the sun or a light bulb, is emitted spontaneously, when atoms or molecules get rid of excess energy by themselves, without any outside <u>intervention</u>. Stimulated emission is different because <u>it</u> occurs when an atom or molecule holding onto excess energy has been stimulated to emit it as light.

Charles H. Town was the first to succeed in discovering a way by which one atom or molecule could stimulate many others to emit light, amplifying it to much higher powers. However, instead of working with light, he worked with microwaves, which have a much longer wavelength, and built a device he called a "maser" for Microwave Amplification by the Stimulated Emission of Radiation.

Questions:

- 1- The word "coined" in line 1 could best be replaced by
- A- discovered B- created C- understood
- 2- The word "intervention" in line 4 is closest in meaning to
- A- need B- device C- influence
- 3- The word "it" in line 5 refers to
- A- energy B- atom C- molecule
- 4- Which of the following statements best describes a laser?
- A- An instrument for measuring light waves
- B- An atom in a high-energy state
- C- A device for stimulating atoms and molecules to emit light
- 5- Why was Town's early work with stimulated emission done with microwaves?
- A- It was easier to work with longer wavelengths
- B- The laser had already been developed
- C- He was not concerned with light amplification

Part IV-Composition

Write a paragraph on ONE of the following topics:

- 1. Means of communications are developing rapidly. Discuss
- 2. Solar energy.

Good luck