

MINISTERE DE L'ENSEIGNEMENT SUPERIEUR ET DE LA RECHERCHE	BACCALAUREAT 2015 ANGLAIS	DUREE : 3 H Coef. : 2
OFFICE DU BACCALAUREAT	SERIES EFTI/I	

**SESSION NORMALE**

Section One : Comprehension (7 points)

Read the following passage carefully and then answer the questions that follow it.

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**Text: Geothermal Energy**

Geothermal energy is the heat from the Earth. It's clean and sustainable. Resources of geothermal energy range from the shallow ground to hot water and hot rock found a few miles beneath the Earth's surface, and down even deeper to the extremely high temperatures of molten rock called magma.

Almost everywhere, the shallow ground or upper 10 feet of the Earth's surface maintains a nearly constant temperature between 10° and 16°C. Geothermal heat pumps can tap into this resource to heat and cool buildings. A geothermal heat pump system consists of a heat pump, an air delivery system (ductwork), and a heat exchanger—a system of pipes buried in the shallow ground near the building. In the winter, the heat pump removes heat from the heat exchanger and pumps it into the indoor air delivery system. In the summer, the process is reversed, and the heat pump moves heat from the indoor air into the heat exchanger. The heat removed from the indoor air during the summer can also be used to provide a free source of hot water.

In the United States, most geothermal reservoirs of hot water are located in the western states, Alaska, and Hawaii. Wells can be drilled into underground reservoirs for the generation of electricity. Some geothermal power plants use the steam from a reservoir to power a turbine/generator, while others use the hot water to boil a working fluid that vaporizes and then turns a turbine. Hot water near the surface of Earth can be used directly for heat. Direct-use applications include heating buildings, growing plants in greenhouses, drying crops, heating water at fish farms, and several industrial processes such as pasteurizing milk.

*From WIKIPEDIA, the Free Encyclopedia*

**A/ Questions (5 pts)**

- 1- Answer the questions below by either true or false only (2pts)
  - a/ Geothermal energy is generated from the soil.
  - b/ Geothermal energy is also generated from the magma beneath the ground.
  - c/ Geothermal energy is clean and sustainable.
  - d/ In the United States, wells can be drilled into underground reservoirs for the generation of electricity.
- 2- What is geothermal energy? (1 pt)
- 3- What are the resources of geothermal energy? (1 pt)
- 4- What are the direct-use applications of geothermal energy found in the text? (1 pt)

**B/ Vocabulary (2pts)**

1- Find in the text an antonym for each of the following words:

- a) deep ≠ ;      b) cold ≠ ;      c) winter ≠ ;      d) indirect-use ≠ .

2- Derive a verb out of each of the following words:

- a) reservoirs;    b) hot;    c) generation;    d) application.

**Section Two: Linguistic competence ( 8 points)**

*A/ Choose the most appropriate word or expression in the brackets to complete the sentence below*

- 1- Carolina is the most attractive lady Mr. Akpama has ... ..met. (never, not, ever, yet)
- 2- If it rained, farmers ..... in their fields. (will sow, would sow, would have sown)
- 3- New classes are being .....to cope with over-crowded classrooms.(built, build, building)
- 4- The headmaster told us ..... to school the following day. (to not come, not to come, to come, come)
- 5- The thief couldn't help ..... away when he saw the police. (to run, runs, running, ran)
- 6- I. .... my cousin since last week. (didn't see, haven't seen, don't see)
- 7- It is going to rain, I..... take an umbrella. (would rather, had to, had better, didn't)

*B/ Use the correct question tag*

- 8- Let's start the work immediately,.....?
- 9- They didn't meet yesterday, .....?
- 10- We seldom wear helmet on our motors, .....?

*C/ Ask questions the answers of which are underlined*

- 11- Miners extracted raw materials in this area.
- 12- We spent two weeks in London. / *in London for two weeks*
- 13- Teachers' living conditions should be bettered.

*D/ Put into either passive or active voice*

- 14- Ama is preparing the meat stew.
- 15- The goods have been delivered on schedule.
- 16- Did the Bishop bless the new church building?

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**Section Three: Letter writing ( 3 points)**

You are Agban Gbadza and your address is B.P. 1515, Lomé, Togo. You bought a TV set from Issifou Import-Export, B.P. 410, Lomé-Togo. At home you noticed that the TV set doesn't work properly. Write a letter to the Sales Manager of Issifou Import-Export to complain about what is going wrong with the TV set, and suggest a solution.

(Not more than 150 words.)

**Section Four: Translation (2 points)**

*Translate into French the sentences below*

- 1- Geothermal energy is the heat from the earth. It is clean and sustainable.
- 2- Gerard is a civil engineer. He builds roads, dams and bridges.