

Điểm		Chữ ký và họ tên CB chấm thi 1	Chữ ký và họ tên CB chấm thi 2	SỐ PHÁCH (Do ban phách ghi)
Bảng số	Bảng chữ			

VII. Read the following passage and answer the questions that follow.

Renewable Energy

- A. The race is on for the ultimate goal of renewable energy: electricity production at prices that are competitive with coal-fired power stations, but without coal's pollution. Some new technologies are aiming to be the first to push coal from its position as Australia's chief source of electricity.
- B. At the moment the front-runner in renewable energy is wind technology. According to Peter Bergin of Australian Hydro, one of Australia's leading wind energy companies, there have been no dramatic changes in windmill design for many years, but the cumulative effects of numerous small improvements have had a major impact in cost. "We're reaping the benefits of 30 years of research in Europe, without having to make the same mistakes that they did." Mr. Bergin says.
- C. Electricity can be produced from coal at round 4 cents per kilowatt-hour, but only if the environmental costs are ignored. "Australia has the second cheapest electricity in the world, and this makes it difficult for renewable to compete," says Richard Hunter of the Australian Ecogeneration Association (AEA). Nevertheless, the AEA reports: "The production cost of a kilowatt-hour of wind power is one fifth of what it was 20 years ago," or around 7 cents per kilowatt-hour.
- D. Australian Hydro has dozens of wind monitoring stations across Australia as part of its aim to become Australia's pre-eminent renewable energy company. Despite all these developments wind power remains one of the few forms of alternative energy where Australia is nowhere near the global cutting edge, mostly just replicating European designs.
- E. While wind may currently lead the way, some consider a number of technologies under development have more potential. In several cases, Australia is at the forefront of global research in the area. Some of them are very site-specific, ensuring that they may never become dominant market players. On the other hand, these newer developments are capable of providing more reliable power, avoiding the major criticism of windmills – the need for back-up on a calm day.
- F. One such development uses hot, dry rocks. Deep beneath South Australia, radiation from elements contained in granite heats the rocks. Layers of insulating sedimentation raise the temperatures in some location to 250° centigrade. An Australian firm, Geoenergy, is proposing to pump water 3.5 kilometers into the earth, where it will travel through tiny fissures in the granite, heating up as it goes, until it escapes as steam through another drilled hole.
- G. No greenhouse gases are produced, but the system needs some additional features if it is to be environmentally friendly. Dr Prue Chopra, a geophysicist at the Australian National University and one of the founders of Geoenergy, note that the steam will bring with it radon gas, along through a heat exchanger and then sent back underground for another cycle. Technically speaking, hot dry rocks are not a renewable source of energy. However, the Australian source is so large it could supply the entire country's needs for thousands of years at current rates of consumption.
- H. Two others proposals for very different ways to harness sun and wind energy have surfaced recently. Progress continues with Australian company EnviroPower's plans for Australia's first solar chimney near Mildura, in Victoria. Under this scheme, a tall tower will draw hot air from a greenhouse built to cover the surrounding 5 km². As the air rises, it will drive a turbine to produce electricity. The solar tower combines three very old technologies – the chimney, the turbine and the greenhouse – to produce something quite

new. It is this reliance on proven engineering principles that led Enviropower's CEO, Richard Davies, to state: "There is no doubt this technology will work, none at all."

- I. This year, Enviropower recognized that the quality of sunlight in the Mildura district will require a substantially larger collecting area than was previously thought. However, spokesperson Kay Firth says that a new location closer to Mildura will enable Enviropower to balance the increased costs with extra revenue. Besides saving in transmission costs, the new site "will mean increased revenue from tourism and use of power for telecommunications. We'll also be able to use the outer 500 meters for agribusiness." Wind speeds closer to the tower will be too high for farming.
- J. Another Australian company, Wavetech, is achieving success with ways of harvesting the energy in waves. Wavetech's invention uses a curved surface to push waves into a chamber, where the flowing water column pushes air back and forth through a turbine. Wavetech was created when Dr. Tim Devine offered the idea to the world leader in wave generator manufactures, who rather surprisingly rejected it. Dr. Devine responded by establishing Wavetech, and making a number of other improvements to generator design. Wavetech claims that, at appropriate sites, the cost of electricity produced with our technology should be below 4 cents per kilowatt-hour.
- K. The diversity of forms of greenhouse-friendly energy under development in Australia is remarkable. However, support in a national level is disappointing. According to Richard Hunter of the AEA, "Australia has huge potential for wind, sun and wave technology. We should really be at the forefront, but the reality is we are a long way behind."

Do the statements agree with the information in the passage? – True (T) / False (F) / Not given (NI)

1. In Australia, alternative energies are less expensive than conventional electricity.
2. Geoenergy needs to adapt its system to make it less harmful to the environment.
3. Dr. Prue Chopra has studied the effects of radon gas on the environment.
4. Hot, dry rocks could provide enough power for the whole of Australia.
5. The new Enviropower facility will keep tourists away.
6. Wavetech was established when its founders were turned down by another company.
7. According to the AEA, Australia is a world leader in developing renewable energy.

1.	2.	3.	4.	5.	6.	7.
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Look at the following statements and the list of companies below.

Match each statement with the correct company, A-D.

8. During the process, harmful substances are prevented from escaping. _____
9. Water is used to force air through a special device. _____
10. Techniques used by other countries are being copied. _____

List of Companies

A. Australian Hydro	B. Geoenergy	C. Enviropower	D. Wavetech
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VIII. Read the passage carefully and then fill each gap with ONE suitable word.

There is a famous expression in English: "Stop the world, I want to get off!" This expression (1) _____ to a feeling of panic, or stress, that makes a person want to stop whatever they are doing, try to relax, and become calm again. "Stress" (2) _____ pressure or tension. It is one of the most common causes of health problems in modern life. Too much stress results (3) _____ physical, emotional, and mental health problems. There are numerous physical effects of stress. Stress can affect the heart. It can increase the pulse rate, make the heart miss beats, and can (4) _____ high blood pressure. Stress can affect the respiratory system. It can (5) _____ to asthma. It can cause a person to breathe too fast, resulting in a (6) _____ of important carbon dioxide. Stress can affect the stomach. It can cause stomach aches and problems digesting food. These are only a few examples of the wide range of illnesses and symptoms resulting (7) _____ stress.

Emotions are also easily affected by stress. People (8) _____ from stress often feel anxious. They may have panic attacks. They may feel tired all the time. (9) _____ people are under stress, they often overreact to little problems. For example, a normally gentle parent (10) _____ a lot of stress at work may yell at a child for dropping a glass of juice. Stress can make people angry, moody, or nervous.

Long-term stress can lead to a variety of serious mental illnesses. Depression, an extreme feeling of sadness and hopelessness, can (11) _____ the result of continued and increasing stress. Alcoholism and (12) _____ addictions often develop as a result of overuse of alcohol or drugs to try to (13) _____ stress. Eating disorders, such as anorexia, (14) _____ sometimes caused by stress and are often made worse by stress. If stress is allowed to continue, then one's mental health is put (15) _____ risk.