

Test_Unit_3

Student name _____

Group/Class _____

Date _____ Score _____

GRAMMAR

1 Choose the correct alternatives to complete the sentences.

- 1 Energy from the sun *is captured/captures* by solar panels to be converted into electricity.
- 2 In volcanic areas, cold water *is pumped/pumps* underground and comes out as steam, which is then used to power energy-producing turbines.
- 3 Crude oil reserves are *being vanished/vanishing* at an alarming rate.
- 4 Wind turbines *is converted/convert* wind into electricity.
- 5 In the past, miners *is used/used* explosives to break up coal seams in order to extract coal from under the ground.

Score: / 5

2 Order the words to make statements about electric cars.

- 1 currently / source / use / most / non-renewable / cars / energy / as / fuels / their / .
Most cars currently use non-renewable fuels as their energy source.
- 2 in / used / to / electricity / cars / electric / power / stored / rechargeable batteries / is / .

- 3 between 30 minutes / the speed / the battery / to / on / 12 hours / its capacity / charge / and / can / depending / take / and / of / the charging point / .

- 4 charge / average / for / electric car / can / up to / on / 200 miles / an / run / one / .

- 5 incur / with / running costs / lower / internal / than / electric cars / combustion engines / cars / .

- 6 a / or / electric motor / with / hybrid car / diesel / combines / gas / a / engine / an / .

Score: / 5

3 Check (✓) the correct sentences and rewrite the incorrect sentences.

- 1 Energy crops, which are high in cellulose, is cultivated on an industrial scale to produce liquid fuels such as biodiesel and ethanol. ☐

- 2 Biomass, such as wood chips or pellets, is burned in a combustion chamber to boil water. ☐

- 3 During photosynthesis, plants are harnessed energy from the sun to convert water and carbon dioxide into oxygen. ☐

- 4 Most of the world's reserves of fossil fuels found underground. ☐

- 5 Mining companies drill through rock formations to extract the natural resources that lie deep beneath the surface. ☐

Score: / 5

VOCABULARY

4 Choose the correct words to complete the sentences.

The Three Gorges Dam in China is the world's largest hydropower dam. It harnesses the (1) _____ of the majestic Yangtze River to produce around 10% of China's energy. The (2) _____ convert the (3) _____ of the water falling over the dam into mechanical energy. This in turn is converted into electrical energy by the 34 (4) _____. The construction of the dam has contributed to the growth of (5) _____ energy being produced in China.

- | | | |
|--------------------|------------------|----------------------|
| 1 A flow | B proponent | C gears |
| 2 A dam | B mining pump | C turbines |
| 3 A kinetic energy | B additive | C generator |
| 4 A mining pump | B generators | C transmission lines |
| 5 A parallel | B carbon-neutral | C renewable |

Score: / 5

5 Complete the words in the sentences. The first letter is given, and there is one space for each letter.

- 1 Harmful bacteria from pests and insects such as rats, mice, and maggots can _____ food.
c
- 2 Once food has been contaminated, it is _____ and must be disposed of immediately.
i
- 3 One of the major _____ effects of eating contaminated food is a bout of food poisoning, but it's not always obvious exactly which food contained the harmful bacteria that has caused the problem.
a
- 4 It's essential to keep areas where food is being prepared spotlessly clean to _____ contamination.
m
- 5 A lot of processed foods contain worrying levels of _____, and there are those who strongly believe that they are detrimental to the population's health.
a

Score: / 5

6 Choose the correct alternatives to complete the sentences.

- 1 Proponents of the concept of global warming cite/diminish the rapidly disappearing polar ice caps as proof of their hypothesis.
- 2 Sweden has pledged to become 100% carbon-neutral/renewable by 2045. To achieve this goal, it will derive all its electricity from either nuclear energy or hydropower.
- 3 Solar energy is a renewable, free source of energy, and as such is excessive/sustainable since unlike fossil fuels, it will never run out.
- 4 While waves can be harnessed to good effect to create electricity, at the same time they can have a hugely detrimental impact on the environment by causing coastal erosion/formation.
- 5 Radioactive waste caused by the production of nuclear energy can be extraordinarily dangerous to restrict/dispose of.

Score: / 5

READING

Read the following responses to an online forum discussion about wind farms.

"Why should I have to look at these hideous structures every day so that they can produce power for people living in a city miles away? I'd be the first to endorse them, but not in a residential area. It's all very well being an environmentalist if you don't have to live near them. I think that they should be built offshore rather than in the countryside where people live." —**Raihana**

"I believe the government should pay to build more wind farms. They are a great alternative to traditional forms of energy production. They are non-polluting and the wind is free. The cost of production is therefore fixed and not dependent on fluctuating oil prices." —**Kuan-lin**

"I love the sight of huge wind turbines towering magnificently like silent giants moving gracefully over the landscape. How can anyone not be impressed? And the land around them can still be used to grow crops or rear animals." —**Sven**

"A wind farm in the distance is a small price to pay. We have to save the planet; the environment is the most important issue now. Everyone is an environmentalist until they themselves are asked to do something that involves some self-sacrifice." —**Rob**

"While I have a lot of sympathy for the green argument, I don't agree with wind farms because the noise from the turbines is very distracting. Also, the movement of the blades, especially when the sun is behind them, can upset people with sensitive eyes and trigger headaches. There are better alternatives, such as wave power, that are more reliable and less disruptive." —**Mari**

"As an avid bird watcher, I would be concerned to see wind farms built in locations that are popular with birds, such as moorlands, coastlines, and river estuaries. Bird numbers have dropped dramatically in areas with wind farms as they collide with the blades or are scared off by the noise." —**Amol**

"I think that they are an expensive waste of money. They are unreliable since they are dependent on the wind and don't generate energy when it is needed. When the wind drops, we still need coal, gas, or nuclear power stations to supply our energy needs. We can survive without wind power but not without traditional forms of energy production." —**Sam**

"I think that most of the arguments about wind power are just a lot of hot air. Like the turbines themselves, the discussion just goes around in circles." —**Erik**

7 Match the speaker with his or her feelings about wind farms.

- 1 Which speaker doesn't say if he or she is for or against wind farms? ☐
- 2 Which speaker thinks it is more important to protect wildlife? ☐
- 3 Which speaker thinks wind farms are unnecessary? ☐
- 4 Which speaker is both practical and poetic? ☐
- 5 Which speaker uses an economic argument? ☐

- A Sam
- B Erik
- C Kuan-lin
- D Sven
- E Amol

Score: / 5

8 Choose T (True) or F (False).

- 1 Raihana is a proponent of using wind power to generate energy. T / F
- 2 Mari talks about the adverse effects of wind farms. T / F
- 3 Rob believes everyone's opinion is important. T / F
- 4 Amol cites dangers birds can cause to wind turbines. T / F
- 5 Erik is making a joke. T / F

Score: / 5