

Unit 3: The green movement

A. PHONETICS

I. Find the word which has a different sound in the part underlined.

1. A. illegal B. climatic C. benefit D. bioclimatici
2. A. researcher B. energy C. number D. death
3. A. arrested B. estimated C. claimed D. penetrated
4. A. revolution B. election C. interrogation D. question
5. A. reheara B. appeara C. realize D. peace

II. Choose the word which has a different stress pattern from the others.

1. A. attitude B. infamously C. geneticist D. socialist
2. A. preference B. attraction C. advantage D. infinitive
3. A. interview B. essential C. comfortable D. industry
4. A. situation B. interrogation C. detention D. coalition
5. A. difficult B. simplicity C. discovery D. commodity

B. VOCABULARY AND GRAMMAR

I. Choose the correct words in the box to complete the sentences.

percentages nuclear survival derived
hydrogen energy Contaminants improve

1. Solar technology has also emerged for the clean and renewable production of _____ as an alternative energy source.
2. The sun is a powerful _____ source, and this energy source can be harnessed by installing solar panels.
3. _____ are subsequently removed by harvesting the above-ground shoot biomass for volume reduction and storage.

4. It is not only about looking better though, Green cities are also trying to _____ the efficiency of cities and raise the standard of living for people who stay in them.
5. It was more surprising that many of the respondents also had not recently heard or read about hydrogen cars, wind energy or _____ energy.
6. The numbers on a bag of fertilizer tell you the _____ of available nitrogen, phosphorus and potassium found in the bag.
7. Pollution poses health hazards, endangers wild life and makes the planet unsafe for future human _____.
8. The term "plastic" is _____ from the Greek word "plastikos", meaning fit for moulding.

II. Give the correct form of the words in the following sentences.

1. Rooftop gardens prevent buildings from absorbing heat from the sun, which can _____ reduce cooling bills. SIGNIFICANT
2. Solar radiation can be _____ either into thermal energy (heat) or into electrical energy, though the former is easier to accomplish. CONVERSION
3. The doctor said the vitamin would _____ my calcium deficiency. REPLENISHING
4. Nick left the house and strolled down the _____ to the garden. PATH
5. If we continue to _____ our natural resources, our children will pay the price. DEPLETATION
6. Do you know the oldest type of _____ energy is the biomass that is derived from plant matter? SUSTAIN
7. When hiking in the wilderness, it is important to properly _____ of anything you can't pack out. DISPOSABLE
8. We buy _____ food at the farmers' market. It costs a little bit more, but we think it's better for our health. ORGAN

9. Jane Goodall studied chimpanzees for many years in their native _____ in Africa. HABITATION

10. _____ is the protection of things found in nature. CONSERVE

III. Complete each of the following sentences with a suitable preposition.

1. Hazardous gases refer to all kinds _____ gas that can be potential harmful to humans in certain concentrations.

2. The ship's refrigeration and air conditioning plants are designed ____ achieve no ozone depletion.

3. Nuclear waste can cause serious damage to the environment if not disposed _____ properly.

4. In the UK, poor air quality is responsible _____ some 40,000 deaths each year.

5. The government team _____ charge of promoting energy conservation has no campaign budget and with three members to handle the issue nationwide, are short of staff.

6. Biomass typically refers _____ biofuels that are obtained through biological processes such as agriculture and anaerobic digestion.

7. Everyday, the world produces carbon dioxide that is released to the earth's atmosphere and which will still be there _____ one hundred years time.

8. Mankind has been crazy to have not bothered _____ harness the sun's energy until now.

9. Business can now take advantage _____ different suppliers of both gas and electricity and shop for the most economical.

10. _____ a gut level, many people already grasp the key difference between fossil fuels and renewable energy.

IV. Choose the word or phrase from the box that best fits the blank space in the following passage.

Otherwise Although For example Instead of Thanks to

1. _____ some clever and concerned architects, this image is starting to change the concept of green cities aims to bring some beauty from rural environments into urban areas.
2. _____ filling its area with office buildings, Portland has plenty of green space for activities.
3. _____ we are all aware of the effects of oil on seabirds, oil is also extremely toxic to marine life.
4. Today there is a strong emphasis on the halt of CFC usage. CFCs, _____ known as chloro-fluoro-carbons, are ozone depleting chemicals.
5. The smoke in the atmosphere, _____, is increasing so much that the amount of sunlight has been reduced in many cities.

V. Choose the correct words in the box to complete the sentences.

needs of dispose of pay off distributed on took hold
accompanied by for granted absorbed into in part associated with

1. Green products are biodegradable or easily reused either _____ or as a whole.
2. Sea level rise _____ climate change could displace tens of millions of people in low-lying areas - especially in developing countries.
3. A number of World War II munitions exploded as wildfires _____ in a forest around 40 miles southwest of Berlin, Raimund Engel.
4. In explosive eruptions, the fragmented rock may be _____ ash and gases; in effusive eruptions, degassing is common but ash is usually not.
5. Most of us take heating and cooling _____.
6. Engage students in thinking about how water is _____ Earth.
7. Water that falls on the ground can run off into streams or it can be _____ the ground. Students may also say that water can evaporate.
8. You cannot sell them or _____ them without the permission of the finance company.

9. Sustainable energy is energy that meets the _____ the present generations without compromising the ability of future generations to meet their own needs.

10. In many areas, including much of Alabama, an investment for sustainable energy sources will _____ in just a few short years.

VI. Give the correct form of the verbs to fill in the blank.

1. The importance of individual energy sources and options for power generation are changing, as are the ways in which electricity is _____ (transmit) and distributed.

2. Without action, the impacts of climate change _____ (threaten) to catastrophically damage our world.

3. Oil drilling will continue to be a big deal unless we _____ (become) less dependent on fossil fuels.

4. Offshore oil drilling has a significant negative impact on fragile marine and coastal ecosystems, and that the risk of a devastating spill isn't worth _____ (take).

5. As landscapes and habitats literally shift, wildlife must quickly _____ (adjust).

6. Many key economic sectors - from _____ (fish) to energy to water utilities - will feel long-term impacts of climate change.

7. Global warming is now accelerating the rate of sea level rise, _____ (increase) flooding risks to low-lying communities.

8. To make your home a healthier, safer, greener place, beginning with small steps. For example, _____ (make) a commitment to change just one habit every month.

9. We prefer to _____ (describe) a green product as one that has less of an environmental impact or is less detrimental to human health than the traditional product equivalent.

10. Something that is large or with odd dimensions may _____ (require) a custom packaging solution instead of an out-of-the-box box.

VII. Indicate the word(s) CLOSEST in meaning to the underlined word(s) in each of the following questions.

1. Rooftop gardens prevent buildings from absorbing heat from the sun, which can significantly reduce cooling bills.

- A. trivially B. unparticularly C. remarkably D. meaninglessly

2. Solar radiation can be converted either into thermal energy (heat) or into electrical energy, though the former is easier to accomplish.

- A. transformed B. absorbed C. released D. exchanged

3. Adopting a green lifestyle can often be time-consuming for those who are fully committed to green living.

- A. abandoned B. devoted C. dependent D. relevant

4. Solar technology has also emerged for the clean and renewable production of hydrogen as an alternative energy source.

- A. infinite B. substitute C. endless D. restricted

5. The sun is a powerful energy source, and this energy source can be harnessed by installing solar panels.

- A. dug B. transmitted C. devastated D. exploited

6. Pollution poses health hazards, endangers wild life and makes the planet unsafe for future human survival.

- A. stems B. triggers off C. results from D. be caused by

7. Any environmental damage must be punishable by law, and polluters should pay compensation for the damage caused to the environment.

- A. rewards B. ransom C. damages D. savings

8. Pollution had also been a major problem, devastating the natural habitats of many animals and damaging the earth beyond repair.

- A. hopeful B. recoverable C. reversible D. past mending

9. Solar panels could be used on the new development as part of a drive towards environmental sustainability.

- A. steadiness B. inconstancy C. change D. fluctuation

10. Hazardous gases refer to all kinds of gas that can be potentially harmful to humans in certain concentrations.

- A. secure B. certain C. excessive D. noxious

11. Many herbicides and pesticides take a long time to degrade and build up in the soils or throughout the food chain.

- A. dignify B. accumulate C. defrost D. deteriorate

12. There are plenty of potential toxins still being ignored, with less than half of the 5,000 new chemicals widely dispersed throughout the environment since 1950.

- A. harmless compounds B. safe matters
C. poisonous substances D. immortal particles

13. One out of every four premature deaths in India in 2015, or some 2.5 million, was attributed to pollution.

- A. associated with B. got along with C. derived from D. broken down

14. The authorities are now making a determined effort to adapt to the climate change in mountain regions to ensure that climbing can continue.

- A. preserve B. stabilize C. adjust to D. generate

15. The biological agents now in use are environmentally benign and are harmless to humans.

- A. hostile B. unfriendly C. friendly D. unfavorable

16. Renewable resources are exploited so much that they will never be able to recover completely.

- A. destroyed B. run off C. utilized D. built up

VIII. Indicate the word(s) OPPOSITE in meaning to the underlined word(s) in each of the following questions.

1. Contaminants are **subsequently** removed by harvesting the above-ground shoot biomass for volume reduction and storage.

A. later B. eventually C. previously D. afterwards

2. The introduction of harmful substances in the air results in **detrimental** impacts to the environmental and humanity.

A. harmful B. benign C. noxious D. disastrous

3. Offshore oil drilling has a significant negative impact on **fragile** marine and coastal ecosystems, and that the risk of a devastating spill isn't worth taking.

A. durable B. easily broken C. vulnerable D. delicate

4. Without action, the impacts of climate change threaten to **catastrophically** damage our world.

A. beneficially B. ruinously C. fatally D. terribly

5. Global Forest Watch has also **initiated** a project to counteract deforestation through awareness.

A. introduced B. commenced C. launched D. completed

6. Some groups of animals such as amphibians are particularly **vulnerable** to these chemical pollutants and suffer greatly as a result of the high levels of herbicides and pesticides in their habitat.

A. in peril B. in jeopardy C. open to attack D. durable

7. Cigarette butts are not biodegradable and contain extremely **toxic** soluble chemicals.

A. venomous B. deadly C. endangered D. harmless

8. By 2020, global surface temperature will be more than 0.5°C (0.9°F) warmer than the 1986-2005 average, **regardless of** which carbon dioxide emissions pathway the world follows.

A. irrespective of B. without respect to
C. in respect to D. disregard for

9. Everyday, the world produces carbon dioxide that is **released** to the earth's atmosphere and which will still be there in one hundred years time.

- A. trapped B. let off C. discharged D. emitted

10. Global warming is now **accelerating** the rate of sea level rise, increasing flooding risks to low-lying communities.

- A. decelerating B. gaining momentum
C. picking up speed D. getting a move on

C. READING

I. Choose the word or phrase among A, B, C or D that best fits the blank space in the following passage.

From the seeds themselves to the machinery, fertilizers and pesticides - The Green Revolution regimen depend heavily on technology. One alternative, however, depends much (1) ____ on technology - organic farming. Many organic farmers use machinery, but not chemical fertilizers or pesticides. (2) ____ chemical soil enrichers, they use animal manure and plant parts not used as food - natural, organic fertilizers that are clearly a renewable (3) _____. Organic farmers also use alternatives for pesticides, for example, they may rely on natural predators of certain insect pests. (4) ____ the need arises, they can buy the eggs and larvae of these natural predators and introduce them into their crop fields. They use other techniques to control pests as well, like planting certain crops together because one crop repels the other's pests. Organic farmers do not need a lot of land, in fact organic farming is perfectly (5) ____ to small farms and is relatively inexpensive. Finally, many organic farmers' average yields compare favorably with other farmers' yields.

1. A. more B. less C. better D. worse
2. A. In spite of B. On account of C. In favor of D. Instead of
3. A. resource B. source C. matter D. substance

- | | | | |
|----------------|---------|------------|------------|
| 4. A. Then | B. If | C. Because | D. Thought |
| 5. A. suitable | B. open | C. likely | D. suited |

II. Choose the word or phrase among A, B, C or D that best fits the blank space in the following passage.

GREEN ENERGY

Fossil fuels are used to generate the majority of the world's energy, and they come in different forms. For example, coal may be burned in a power (1) ____ to generate electricity, but gasoline is burned in a car's engine to make it run. Neither of these two sources is considered green energy because they produce a lot of pollution when they are burned. In addition, they come from a source that is inevitably going to (2) ____.

Green energy can be defined as any energy source that is to some degree non-polluting. When it is called (3) ____, this means that a person can replace the same amount of energy that was consumed by that person (4) ____ that person's lifetime. Since it took millions and millions of years to create the fossil fuels that we now burn, we know that they cannot be replaced by us.

Wind power and solar power, (5) ____ harnessed properly, are two excellent sources of green energy. Once the necessary parts such as wind turbines to generate wind power and solar panels to create solar power have been produced, only the pollution from the production is left.

- | | | | |
|------------------|----------------|-------------|--------------|
| 1. A. point | B. outlet | C. factory | D. plant |
| 2. A. run out of | B. run out | C. burn out | D. cut out |
| 3. A. durable | B. sustainable | C. harmful | D. effective |
| 4. A. along | B. about | C. within | D. during |
| 5. A. where | B. when | C. which | D. what |

D. WRITING

I. Rewrite the following sentences so that the second ones have the same meaning as the given sentence.

1. Alex is very hard-working, yet he will never get promoted by his mean boss.

Hard-working

2. "Have you ever thought about me in those days?" said her ex.

Her ex asked

3. The child must have come home by himself as his mother was busy that day.

The child almost

4. Her change in appearance was way beyond his expectations.

Never

5. If Ivan comes home late from the party tonight, give him a pair of keys.

In case

6. Because the local river was so polluted, all the fish and plants around there died.

Because of
.....

7. "Why don't we chill out at the nearby swimming pool this weekend, sweetheart?" said Peter to his pregnant wife.

Peter suggested

8. I dislike it when Carlos keeps going at me for such trivial mistakes.

I object

II. Rewrite the following sentences so that the second ones have the same meaning as the given sentence.

1. Jane must have her dress ironed before she goes on her blind date with the guy she's been introduced by her lovely bestie.

Jane's dress needs

2. You wouldn't find a person suit you better than your current partner anywhere in the world.

No

3. The realization that he had been lying to me about his job all along came much later.

Only

4. You won't pass the JLPT test easily if you don't practice your Japanese frequently.

Without

5. The reason why Jenny didn't accept his proposal was that she didn't truly trust his love.

As

6. I am going to the Chinese class this morning, come rain or shine.

Whether

7. Failing to pass the crucial exam, you must give up your French studying here from now on.

You must either

8. Jay Chou is the Chinese singer I admire most of all.

There

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A. PHONETICS

I. Find the word which has a different sound in the part underlined.

1.C	2.D	3.C	4.D	5.D
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II. Choose the word which has a different stress pattern from the others.

1.A	2.A	3.B	4.B	5.A
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B. VOCABULARY AND GRAMMAR

I. Choose the correct words in the box to complete the sentences.

1. hydrogen	2. energy	3. contaminants	4. improve
5. nuclear	6. percentages	7. survival	8. derived

II. Give the correct form of the words in the following sentences.

1. significantly	2. converted	3. replenish	4. pathway	5. deplete
6. sustainable	7. dispose	8. organic	9. habitat	10. conservation

III. Complete each of the following sentences with a suitable preposition.

- Hazardous gases refer to all kinds _____ **of** _____ gas that can be potential harmful to humans in certain concentrations.
- The ship's refrigeration and air conditioning plants are designed ___ **to** ___ achieve no ozone depletion.
- Nuclear waste can cause serious damage to the environment if not disposed _____ **of** ___ properly.
- In the UK, poor air quality is responsible ___ **for** ___ some 40,000 deaths each year.
- The government team ___ **in** ___ charge of promoting energy conservation has no campaign budget and with three members to handle the issue nationwide, are short of staff.
- Biomass typically refers _____ **to** _____ biofuels that are obtained through biological processes such as agriculture and anaerobic digestion.
- Everyday, the world produces carbon dioxide that is released to the earth's atmosphere and which will still be there _____ **in** _____ one hundred years time.

8. Mankind has been crazy to have not bothered ____**to**____ harness the sun's energy until now.
9. Business can now take advantage ____**of**____ different suppliers of both gas and electricity and shop for the most economical.
10. ____**On**____ a gut level, many people already grasp the key difference between fossil fuels and renewable energy.

IV. Choose the word or phrase from the box that best fits the blank space in the following passage.

1. thanks to	4. otherwise
2. instead of	5. for example
3. although	

V. Choose the correct words in the box to complete the sentences.

1. in part	6. distributed on
2. associated with	7. absorbed into
3. took hold	8. dispose of
4. accompanied by	9. needs of
5. for granted	10. pay off

VI. Give the correct form of the verbs to fill in the blank.

1. transmitted	2. threaten	3. become	4. taking	5. adjust
6. fishing	7. increasing	8. make	9. describe	10. require

VII. Indicate the word(s) CLOSEST in meaning to the underlined word(s) in each of me following questions.

1.C	2.A	3.B	4.B
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5.D	6.B	7.C	8.D
9.A	10.D	11.D	12.C
13.A	14.C	15.C	16.C

VIII. Indicate the word(s) OPPOSITE in meaning to the underlined word(s) in each of the following questions.

1.C	2.B	3.A	4.A	5.D
6.D	7.D	8.C	9.A	10.A

C. READING

I. Choose the word or phrase among A, B, C or D that best fits the blank space in the following passage.

1. B	2.D	3.B	4.B	5.D
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II. Choose the word or phrase among A, B, C or D that best fits the blank space in the following passage.

1.D	2.B	3.B	4.C	5.B
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D. WRITING

I. Rewrite the following sentences so that the second ones have the same meaning as the given sentence.

1. Hard-working as Alex is, he will never get promoted by his mean boss.
2. Her ex asked her whether/ if she had ever thought about him in those days.
3. The child almost certainly have come home by himself as his mother was busy that day.

4. Never had he expected her appearance would change so much/she would change so much in appearance.
5. In case Ivan comes home late from the party tonight, give him a pair of keys.
6. Because of the local river's pollution, all the fish and plants around there died.
7. Peter suggested to his pregnant wife that they chill out at the nearby swimming pool that weekend.
8. I object to Carlos keeping going at me for such trivial mistakes.

II. Rewrite the following sentences so that the second ones have the same meaning as the given sentence.

1. Jane's dress needs ironing before she goes on her blind date with the guy she's been introduced by her lovely bestie.
2. No where in the world would you find a person suit you better than your current partner.
3. Only much later did I realize that he had been lying to me about his job all along.
4. Without practicing your Japanese frequently, you won't/ can't pass the JLPT test easily.
5. As Jenny didn't truly trust his love, she didn't accept his proposal.
6. Whether it rains or shines, I am going to the Chinese class this morning.
7. You must either pass the crucial exam or give up your French studying here from now on.
8. There is no Chinese singer (that/ who/ whom) I admire more than Jay Chou.