

CBSE Class 10 English Solution:

Set 3- 2/3/3

Section-A: Reading Skills

Ques 1. Read the following text:

(1) Fossil fuels (oil, coal, and natural gas) are our most traditional sources for power generation. The energy that's produced from any source other than fossil fuels is termed as alternative energy. Between the two sources, using alternative energy has a lower environmental impact.

(2) We now know that alternative energy sources are the sources we use to supplement or even replace traditional energy sources used for power generation. You could almost say the same thing about renewable energy sources. But there is one subtle difference between the two. All renewable energy sources fall under the category of alternative energy sources, but it doesn't work the other way around.

(3) That's because renewable energy sources are derived from naturally replenished sources or processes of Earth, such as the sun, wind, and water. We refer to these resources as renewable or sustainable since, unlike fossil fuels, this naturally occurring continual renewal makes them inexhaustible. However, alternative energy sources are exhaustible, and therefore not renewable. That's the difference!

(4) The equipment necessary to harness energy from alternative sources used to be so expensive that it wasn't practical for consumer use. However, thanks to increased demand, more experienced energy developers, competitive supply chains, improved renewable technologies, and enhanced energy efficiency capabilities, that's no longer the case.

(5) When it comes to energy efficiency, the leader of the renewable energy pack is wind energy. Behind wind comes geothermal energy, hydropower, nuclear energy, and then solar power. Wind power serves both individuals and entire communities. It is versatile, and can be produced from small-scale windmills or wind turbines on residential properties. It can also be produced from large-scale offshore wind farms in the ocean.

(6) We generate geothermal power by tapping into underground reservoirs of hot water and steam. Geothermal electricity can directly heat and cool buildings. Generated from the energy of moving water, hydroelectricity (also known as hydropower) is produced when water behind a dam causes turbine blades to move as it flows through an intake. The turbine blades then rotate a generator to produce electricity that is sent to power homes.

(7) Nuclear energy is created in the form of heat through the fission process of atoms. The initial fission process creates energy and triggers a chain reaction that repeats the process and generates more energy. In nuclear power plants, the heat that fission produces creates steam. The steam then rotates a turbine, which leads to the production of electricity.

(8) Solar power most commonly refers to the use of solar cells to create energy. On a small scale, you may see a few solar panels on a house roof used to produce energy for just that one home. On a larger scale, you may see a solar farm used as a power plant to produce electricity for its consumers.

Answer the following questions, based on the above passage:

(i) Which of the following statements best describes the difference between renewable energy sources and alternate energy sources?

(A) Alternative energy sources are more expensive than renewable energy sources.

(B) Renewable energy sources are inexhaustible whereas alternate energy sources could be exhaustible.

(C) Alternative energy sources are as renewable as renewable energy

sources.

(D) Renewable energy sources are exhaustible but alternative energy sources are inexhaustible.

(ii) What is the tone of the writer in the given lines from para (4)?

Rationalize your response in about 40 words.

"However, thanks to increased demand, more experienced energy developers, competitive supply chains, improved renewable technologies, and enhanced energy efficiency capabilities, that's no longer the case".

iii) Complete the sentence appropriately: (In the past, alternative energy sources were not used much by the consumers because

(iv) The passage includes some words that are opposites of each other.

From the sets (a) to (e) below, identify two sets of antonyms:

(a) generate and produce

(b) exhaustible and inexhaustible

(c) subtle and versatile

(d) power and energy

(e) sustainable and exhaustible

(v) Who is the leader of renewable energy pack and why?

(vi) Based on the reading of the passage, examine, in about 40 words, the difference between geothermal electricity and hydroelectricity.

(vii) What is the message conveyed by the passage?

(A) Only those energy sources should be used which are renewable.

(B) Wind energy is a renewable as well as inexhaustible source of energy.

(C) There are plenty of renewable energy sources that can be used to replace traditional energy sources.

(D) Alternative energy sources are the emerging energy trends and are still evolving.

(viii) State whether the following statement is True or False with reference to the given extract.

Hydroelectricity as a renewable energy source is used for residential as well as commercial purposes.

2. Read the following text, an excerpt from a case study titled "Scouts and Guides Around the World."

(1) Many young people aged between 6 and 25 belong to the Scout movement. It is a worldwide organization, which was set up to help young people achieve their full potential as they grow up.