**Q1) Which of the following is an example of a renewable resource?**

a) Coal

b) Petroleum

c) Wind energy

d) Natural gas

Correct Answer: Option (c)

Explanation: Renewable resources are those resources that can be replenished or regenerated naturally over time, such as wind, solar, hydro, and biomass energy. Coal, petroleum, and natural gas are non-renewable resources, meaning they are finite and will eventually run out. Wind energy, on the other hand, is a form of renewable energy that is generated by wind turbines and can be harnessed indefinitely as long as there is wind.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q2) Which of the following is a direct cause of air pollution?**

a) Burning fossil fuels

b) Deforestation

c) Overuse of fertilizers

d) Industrialization

Correct Answer: Option (a)

Explanation: Air pollution is caused by the presence of harmful substances in the air, which can have negative impacts on human health, the environment, and climate change. Burning fossil fuels, such as coal, oil, and natural gas, is a major source of air pollution, as it releases greenhouse gases, particulate matter, and other pollutants into the air. Deforestation can indirectly contribute to air pollution by reducing the number of trees that absorb carbon dioxide and produce oxygen. Overuse of fertilizers can also contribute to air pollution through the release of nitrogen and phosphorus compounds that react with other pollutants to form smog. Industrialization can contribute to air pollution through emissions from factories, power plants, and transportation.

Thus, the correct answer is option (a).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q3) Which of the following is not a natural disaster?**

a) Earthquake

b) Tsunami

c) Hurricane

d) Oil spill

Correct Answer: Option (d)

Explanation: Natural disasters are events caused by natural phenomena such as earthquakes, hurricanes, tsunamis, floods, landslides, and wildfires. These events occur naturally and are beyond human control. However, an oil spill is not a natural disaster as it is caused by human activities such as oil exploration and transportation. Oil spills can have devastating effects on the environment, including harming marine life, polluting the air and water, and damaging ecosystems. Therefore, oil spills should be prevented through responsible and sustainable practices.

Thus, the correct answer is option (d).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q4) Which of the following is a non-renewable resource?**

a) Solar energy

b) Wind energy

c) Fossil fuels

d) Hydroelectric power

Correct Answer: Option (c)

Explanation: Renewable resources are those that can be replenished naturally over time, such as solar energy, wind energy, and hydroelectric power. Non-renewable resources, on the other hand, are finite and will eventually run out. Fossil fuels such as coal, oil, and natural gas are non-renewable resources that are formed from the remains of ancient plants and animals. These resources are finite, and their extraction and use can have negative environmental impacts such as air pollution and greenhouse gas emissions. Therefore, it is essential to reduce our dependence on non-renewable resources and transition to more sustainable and renewable sources of energy.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q5) Which of the following is a greenhouse gas?**

a) Nitrogen

b) Oxygen

c) Carbon dioxide

d) Helium

Correct Answer: Option (c)

Explanation: Greenhouse gases are gases in the Earth's atmosphere that trap heat from the sun and contribute to the greenhouse effect. This effect is necessary to maintain the Earth's temperature at a level that is habitable for humans and other living beings. However, an excessive amount of greenhouse gases can lead to global warming, which can have severe consequences such as rising sea levels and changes in weather patterns. Carbon dioxide is the primary greenhouse gas that is emitted through human activities such as burning fossil fuels and deforestation.

Thus, the correct answer is option (c).

Difficulty Level- hard

Bloom’s Taxonomy- Analyze

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**Q6) Which of the following is not a factor that contributes to soil erosion?**

a) Deforestation

b) Overgrazing

c) Urbanization

d) Use of organic fertilizers

Correct Answer: Option (d)

Explanation: Soil erosion is the process by which soil is removed from the land surface by natural forces such as wind and water. However, human activities such as deforestation, overgrazing, and urbanization can exacerbate soil erosion by removing the protective vegetation cover and exposing the soil to erosion. Organic fertilizers, which are made from natural materials such as animal manure and compost, do not contribute to soil erosion and can even help to improve soil health by adding nutrients and organic matter. Therefore, the use of organic fertilizers is an environmentally friendly practice that can help to reduce soil erosion.

Thus, the correct answer is option (d).

Difficulty Level- hard

Bloom’s Taxonomy- Analyze

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**Q7) Which of the following is the most effective solution to reduce greenhouse gas emissions from transportation?**

a) Switching to electric vehicles

b) Increasing fuel efficiency standards for gasoline vehicles

c) Encouraging the use of public transportation

d) Implementing a carbon tax on gasoline

Correct Answer: Option (a)

Explanation: Transportation is a significant contributor to greenhouse gas emissions, which can lead to climate change and other environmental problems. While all of the options listed can help to reduce emissions from transportation, switching to electric vehicles is the most effective solution. Electric vehicles produce zero emissions from the tailpipe and emit significantly fewer greenhouse gases over their lifetime compared to gasoline vehicles. However, the production of electricity used to charge electric vehicles may also emit greenhouse gases, depending on the source of the electricity. Therefore, it is important to promote the use of renewable energy sources such as solar and wind power to charge electric vehicles.

Thus, the correct answer is option (a).

Difficulty Level- Very hard

Bloom’s Taxonomy- Analyze

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**Q8) Which of the following layers of the Earth is the thinnest?**

a) Mantle

b) Inner core

c) Outer core

d) Crust

Correct Answer: Option (d)

Explanation: The Earth is composed of several layers, including the crust, mantle, outer core, and inner core. The crust is the outermost layer and is the thinnest of all the layers. It varies in thickness from about 5 to 70 kilometres, depending on the location. The crust is made up of solid rock and is divided into tectonic plates that move slowly over the Earth's surface.

Thus, the correct answer is option (d).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q9) Which of the following types of rocks is formed from the cooling and solidification of magma?**

a) Sedimentary

b) Metamorphic

c) Igneous

d) None of the above

Correct Answer: Option (c)

Explanation: Igneous rocks are formed from the cooling and solidification of magma or lava. Magma is molten rock that is located below the Earth's surface, while lava is molten rock that flows onto the Earth's surface. When magma or lava cools and solidifies, it forms igneous rocks such as granite, basalt, and pumice. Sedimentary rocks are formed from the accumulation of sediment, while metamorphic rocks are formed from the alteration of existing rocks through heat and pressure.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q10) Which of the following processes results in the formation of mountains?**

a) Erosion

b) Deposition

c) Folding

d) Weathering

Correct Answer: Option (c)

Explanation: Mountains are formed through a variety of processes, including tectonic activity, volcanic activity, and erosion. However, one of the most common processes that result in the formation of mountains is folding. This process occurs when tectonic plates collide, causing the Earth's crust to buckle and fold. Over time, the continued movement of these plates can result in the formation of mountain ranges such as the Himalayas or the Rocky Mountains.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q11) Which of the following is a natural disaster that can result from a tectonic activity?**

a) Hurricane

b) Tsunami

c) Tornado

d) Flood

Correct Answer: Option (b)

Explanation: Tectonic activity, such as earthquakes and volcanic eruptions, can result in natural disasters such as tsunamis. A tsunami is a series of ocean waves with very long wavelengths (typically several hundred kilometres) caused by large-scale disturbances of the ocean, such as earthquakes or volcanic eruptions. When an earthquake or volcanic eruption occurs underwater, it can create a series of large waves that can travel across the ocean and cause significant damage and loss of life when they reach the shore. Other natural disasters that can result from tectonic activity include landslides and mudslides.

Thus, the correct answer is option (b).

Difficulty Level- Medium

Bloom’s Taxonomy- Remember

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**Q12) Which of the following is not a type of plate boundary?**

a) Convergent boundary

b) Divergent boundary

c) Transform boundary

d) Sedimentary boundary

Correct Answer: Option (d)

Explanation: Plate boundaries are the areas where tectonic plates meet and interact with each other. There are three types of plate boundaries: convergent boundaries, where plates move towards each other; divergent boundaries, where plates move away from each other; and transform boundaries, where plates slide past each other. There is no such thing as a sedimentary boundary because sedimentary rocks are formed from the accumulation of sediment, not from plate tectonics.

Thus, the correct answer is option (d).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

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**Q13) Which of the following is a process that occurs at a divergent plate boundary?**

a) Subduction

b) Mountain building

c) Volcanic activity

d) Seafloor spreading

Correct Answer: Option (d)

Explanation: Divergent plate boundaries occur when tectonic plates move away from each other. This movement creates a gap in the Earth's crust, which is filled by magma that rises from the mantle. As the magma cools and solidifies, it forms a new crust. This process is known as seafloor spreading and is responsible for the creation of a new oceanic crust. Over time, the continuous movement of the plates can result in the formation of mid-ocean ridges, which are underwater mountain ranges. Volcanic activity is more commonly associated with convergent plate boundaries, where plates move towards each other and can result in the subduction of one plate beneath another.

Thus, the correct answer is option (d).

Difficulty Level- Hard

Bloom’s Taxonomy- Understand

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**Q14) Which of the following is an example of a mineral that is commonly found in igneous rocks?**

a) Quartz

b) Calcite

c) Halite

d) Gypsum

Correct Answer: Option (a)

Explanation: Igneous rocks are formed from the cooling and solidification of magma or lava. Many minerals can be found in igneous rocks, but one of the most common is quartz. Quartz is a mineral that is made up of silicon and oxygen atoms and is known for its hardness, durability, and resistance to weathering. It is found in many types of igneous rocks, including granite, rhyolite, and obsidian. Calcite, halite, and gypsum are minerals that are more commonly found in sedimentary rocks, which are formed from the accumulation of sediment over time.

Thus, the correct answer is option (a).

Difficulty Level- Very Hard

Bloom’s Taxonomy- Analyze

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**Q15) Which of the following is an example of a slow change in the Earth's surface?**

a) Earthquake

b) Volcanic eruption

c) Erosion

d) Landslide

Correct Answer: Option (c)

Explanation: Erosion is a slow and gradual process by which the Earth's surface is worn away by natural forces such as wind, water, and ice. Over time, erosion can cause significant changes to the landscape, including the formation of canyons, valleys, and coastlines. Earthquakes, volcanic eruptions, and landslides, on the other hand, are examples of sudden and dramatic changes to the Earth's surface that can occur in a matter of seconds or minutes.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Remember

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**Q16) Which of the following is an example of a man-made change to the Earth's surface?**

a) Glacier melting

b) Soil erosion

c) Deforestation

d) Continental drift

Correct Answer: Option (c)

Explanation: Deforestation, or the clearing of forests for human purposes such as agriculture or development, is an example of a man-made change to the Earth's surface. Other examples of man-made changes include urbanization, mining, and construction. Glacier melting and soil erosion are natural processes that can occur as a result of climate change or other natural forces. Continental drift, on the other hand, is a natural process that occurs over millions of years and is caused by the movement of tectonic plates.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q17) Which of the following is an example of a natural disaster that can cause rapid changes to the Earth's surface?**

a) Soil erosion

b) Desertification

c) Tsunami

d) Coral bleaching

Correct Answer: Option (c)

Explanation: A tsunami is a powerful and destructive wave that is typically caused by an underwater earthquake, volcanic eruption, or landslide. When a tsunami hits the shore, it can cause rapid changes to the Earth's surface, including flooding, erosion, and the destruction of buildings and other infrastructure. Soil erosion and desertification are examples of slow and gradual changes to the Earth's surface that can occur over long periods. Coral bleaching is a phenomenon that occurs when coral reefs lose their colour and begin to die off due to changes in water temperature or other environmental factors.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Remember

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**Q18) Which of the following is an example of a long-term impact of human activity on the Earth's surface?**

a) Oil spill

b) Deforestation

c) Nuclear disaster

d) Volcanic eruption

Correct Answer: Option (b)

Explanation: Deforestation is an example of a human activity that can have long-term impacts on the Earth's surface. When forests are cleared for agriculture, development, or other purposes, the loss of trees can have significant impacts on the local ecosystem, including changes to soil quality, water cycles, and wildlife habitats. Deforestation can also contribute to climate change by releasing carbon dioxide into the atmosphere and reducing the amount of carbon that is absorbed by trees through photosynthesis. Oil spills, nuclear disasters, and volcanic eruptions are examples of environmental disasters that can have immediate and devastating impacts on the Earth's surface, but their long-term impacts are often more difficult to predict and assess.

Thus, the correct answer is option (d).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q19) Which of the following is an example of a feedback loop that can contribute to climate change?**

a) Increased deforestation leads to higher levels of carbon dioxide in the atmosphere, which in turn causes temperatures to rise and contributes to more deforestation.

b) Melting glaciers cause sea levels to rise, which in turn leads to more melting of glaciers.

c) Increased volcanic activity leads to higher levels of sulphur dioxide in the atmosphere, which causes temperatures to decrease and contributes to more volcanic activity.

d) Soil erosion leads to decreased agricultural productivity, which causes more deforestation to clear new land for farming.

Correct Answer: Option (a)

Explanation: Feedback loops are processes that can either amplify or dampen the effects of a change in the Earth's system. In this example, increased deforestation leads to higher levels of carbon dioxide in the atmosphere, which causes temperatures to rise and contributes to more deforestation. As temperatures rise, forests become drier and more susceptible to fires, which can lead to further deforestation and the release of even more carbon dioxide into the atmosphere. This feedback loop can contribute to climate change by increasing the number of greenhouse gases in the atmosphere and causing temperatures to rise even further.

Thus, the correct answer is option (a).

Difficulty Level- Hard

Bloom’s Taxonomy- Understand

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**Q20) Which of the following is an example of a positive impact of human activity on the Earth's surface?**

a) Reforestation efforts that restore degraded forests and increase wildlife habitat

b) Oil drilling that creates jobs and stimulates economic growth

c) Dam construction that generates hydroelectric power and provides irrigation water for agriculture

d) Mining that extracts valuable minerals and metals for industrial use

Correct Answer: Option (a)

Explanation: While many human activities have negative impacts on the Earth's surface, some can also have positive impacts. In this example, reforestation efforts can restore degraded forests and increase wildlife habitat, which can help to mitigate the impacts of deforestation and other forms of habitat destruction. Reforestation can also help to sequester carbon from the atmosphere and contribute to climate change mitigation. Oil drilling, dam construction, and mining, on the other hand, often have negative impacts on the environment and can contribute to pollution, habitat destruction, and other environmental problems.

Thus, the correct answer is option (a).

Difficulty Level- Hard

Bloom’s Taxonomy- Remember

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**Q21) Which of the following is an example of a catastrophic natural event that can cause rapid changes to the Earth's surface and contribute to long-term climate change?**

a) Volcanic eruptions that release large amounts of greenhouse gases into the atmosphere

b) Earthquakes that cause the shifting of tectonic plates and alter ocean currents

c) Asteroid impacts that cause widespread destruction and alter atmospheric chemistry

d) Tsunamis that erode coastlines and release large amounts of carbon stored in ocean sediments

Correct Answer: Option (c)

Explanation: Asteroid impacts are rare but catastrophic events that can cause widespread destruction and alter atmospheric chemistry. Large impacts can cause mass extinction events by altering the global climate and can contribute to long-term climate change by releasing large amounts of greenhouse gases into the atmosphere. The impact of the asteroid that caused the extinction of the dinosaurs is thought to have caused a global cooling period that lasted for several years and may have contributed to the eventual recovery of the planet's ecosystems. While earthquakes and tsunamis can cause rapid changes to the Earth's surface, they typically do not have long-term impacts on the global climate. Volcanic eruptions, on the other hand, can have both short-term and long-term impacts on climate by releasing large amounts of greenhouse gases into the atmosphere and altering atmospheric chemistry.

Thus, the correct answer is option (c).

Difficulty Level- Very Hard

Bloom’s Taxonomy- Analyze

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**Q22) Which of the following gases makes up the majority of the Earth's atmosphere?**

a) Nitrogen

b) Oxygen

c) Carbon dioxide

d) Methane

Correct Answer: Option (a)

Explanation: Nitrogen is the most abundant gas in the Earth's atmosphere, making up approximately 78% of the total volume. Oxygen is the second most abundant gas, making up about 21% of the atmosphere. Carbon dioxide and methane are both present in much smaller amounts, at less than 1% and 0.0002% respectively.

Thus, the correct answer is option (a).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q23) Which of the following is a primary source of air pollution in urban areas?**

a) Agricultural activities

b) Industrial emissions

c) Natural gas leaks

d) Volcanic eruptions

Correct Answer: Option (b)

Explanation: Urban areas are often characterized by high levels of air pollution, which can have negative impacts on human health and the environment. One of the primary sources of air pollution in urban areas is industrial emissions, which can include pollutants such as particulate matter, sulphur dioxide, nitrogen oxides, and volatile organic compounds. Agricultural activities and natural gas leaks can also contribute to air pollution in certain circumstances but are generally not as significant as industrial emissions. Volcanic eruptions can release large amounts of ash and gases into the atmosphere, but these events are relatively rare and typically have short-term impacts on air quality.

Thus, the correct answer is option (b).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q24) Which of the following pollutants is a primary contributor to the formation of smog?**

a) Carbon dioxide

b) Nitrogen oxides

c) Methane

d) Ozone

Correct Answer: Option (b)

Explanation: Smog is a type of air pollution that occurs when pollutants such as nitrogen oxides, volatile organic compounds, and particulate matter combine with sunlight to form ground-level ozone. Nitrogen oxides, which are produced primarily by vehicles and industrial activities, are a major contributor to the formation of smog. While carbon dioxide and methane are both greenhouse gases that contribute to climate change, they do not play a significant role in the formation of smog. Ozone is a pollutant that is formed as a result of the chemical reactions that occur in the presence of sunlight and can contribute to the formation of smog as well as other air quality problems.

Thus, the correct answer is option (b).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q25) Which of the following is a common health effect of exposure to high levels of air pollution?**

a) Increased appetite

b) Headaches and dizziness

c) Enhanced cognitive function

d) Reduced lung capacity

Correct Answer: Option (b)

Explanation: Exposure to high levels of air pollution can have a range of negative health effects, including headaches, dizziness, and nausea. Other common health effects can include respiratory problems such as coughing, wheezing, and shortness of breath, as well as exacerbation of pre-existing conditions such as asthma and heart disease. Exposure to air pollution can also have negative impacts on cognitive function and mental health. While some studies have suggested that exposure to certain air pollutants can increase appetite, this is not a common health effect of air pollution.

Thus, the correct answer is option (b).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q26) Which of the following is a potential solution to the problem of air pollution?**

a) Increasing the use of fossil fuels

b) Encouraging the construction of new highways

c) Promoting the use of public transportation

d) Decreasing the use of renewable energy sources

Correct Answer: Option (c)

Explanation: One potential solution to the problem of air pollution is to promote the use of public transportation, which can help to reduce the number of vehicles on the road and decrease emissions from transportation sources. Encouraging the use of electric vehicles and other low-emission vehicles is also a potential solution, as is decreasing the use of fossil fuels and increasing the use of renewable energy sources. The construction of new highways and increasing the use of fossil fuels are not effective solutions to the problem of air pollution, as they would likely increase.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Remember

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**Q27) Answer the following question with reference to the audio**

[**https://drive.google.com/file/d/1RIs3tG4oYIhbLMt6bZMy0fLkSG2pJFSQ/view?usp=share\_link**](https://drive.google.com/file/d/1RIs3tG4oYIhbLMt6bZMy0fLkSG2pJFSQ/view?usp=share_link)

**Type: Audio**

**Which of the following is NOT a common type of air pollutant?**

a) Particulate matter

b) Carbon monoxide

c) Nitrogen oxides

d) Ozone

Correct Answer: Option (b)

Explanation: While carbon monoxide is an air pollutant, it is not one of the most common types of air pollutants. The most common types of air pollutants are particulate matter, nitrogen oxides, sulphur dioxide, and volatile organic compounds.

Thus, the correct answer is option (b).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

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**Q28) Answer the following question with reference to the audio**

[**https://drive.google.com/file/d/19nucdKxlyEdpbCwPdkIDhM64f9kwvEhz/view?usp=share\_link**](https://drive.google.com/file/d/19nucdKxlyEdpbCwPdkIDhM64f9kwvEhz/view?usp=share_link)

**Type: Audio**

**What are some of the negative health effects of air pollution?**

a) Reduced risk of heart disease and lung cancer

b) Increased risk of respiratory infections and stroke

c) Improved lung function and athletic performance

d) Increased cognitive function and memory retention

Correct Answer: Option (b)

Explanation: Exposure to air pollutants can increase the risk of respiratory infections, heart disease, stroke, and lung cancer. These negative health effects can be particularly severe for vulnerable populations such as children, the elderly, and people with pre-existing health conditions.

Thus, the correct answer is option (b).

Difficulty Level- Hard

Bloom’s Taxonomy- Understand

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**Q29) Which of the following is NOT a source of freshwater?**

a) Rivers

b) Lakes

c) Oceans

d) Groundwater

Correct Answer: Option (c)

Explanation: Oceans are not a source of freshwater because they contain saltwater, which is not suitable for drinking or irrigation. Rivers, lakes, and groundwater are all sources of freshwater. However, many regions around the world are facing a water crisis due to pollution, overuse, and climate change. We must take steps to conserve and manage our freshwater resources.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Understand

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**Q30) Which of the following is a human activity that can cause water pollution?**

a) Photosynthesis

b) Erosion

c) Fishing

d) Industrial waste discharge

Correct Answer: Option (d)

Explanation: Industrial waste discharge is a human activity that can cause water pollution. When industrial waste is not properly treated or disposed of, it can contaminate nearby water sources and harm aquatic ecosystems. Photosynthesis, erosion, and fishing do not directly cause water pollution.

Thus, the correct answer is option (d).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q31) Which of the following is a natural source of freshwater?**

a) Desalination plants

b) Dams

c) Rainfall

d) Irrigation canals

Correct Answer: Option (c)

Explanation: Rainfall is a natural source of freshwater. It is formed when water vapour in the air condenses and falls to the ground as precipitation. Desalination plants, dams, and irrigation canals are man-made structures that can provide freshwater, but they are not natural sources.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q32) Which of the following is a waterborne disease?**

a) Malaria

b) Tuberculosis

c) Cholera

d) Diabetes

Correct Answer: Option (c)

Explanation: Cholera is a waterborne disease that can be transmitted through contaminated water sources. It is caused by the bacterium Vibrio cholera and can cause severe diarrhoea, vomiting, and dehydration. Malaria, tuberculosis, and diabetes are not waterborne diseases.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q33) Which of the following is a way to conserve water?**

a) Taking long showers

b) Washing dishes by hand

c) Using a low-flow toilet

d) Letting the tap run while brushing teeth

Correct Answer: Option (c)

Explanation: Using a low-flow toilet is a way to conserve water. Low-flow toilets use less water per flush than traditional toilets, which can save a significant amount of water over time. Taking long showers, washing dishes by hand, and letting the tap run while brushing your teeth are all activities that can waste water.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Evaluate

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**Q34) Answer the following question with reference to the audio**

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**Type: Audio**

**What is the main cause of the water crisis in many regions around the world?**

a) Lack of rainfall

b )Pollution

c) Overuse of water

d) None of the above

Correct Answer: Option (b)

Explanation: Pollution is one of the main causes of the water crisis in many regions around the world. When water sources become contaminated with pollutants, they become unsuitable for human use and can cause health problems. Overuse of water and lack of rainfall can also contribute to water scarcity, but pollution is a major factor.

Thus, the correct answer is option (b).

Difficulty Level- Hard

Bloom’s Taxonomy- Understand

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**Q35) Answer the following question with reference to the audio**

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**Type: Audio**

**Who is most affected by the lack of access to clean water in developing countries?**

a) Men

b) Children

c) Elderly people

d) Women

Correct Answer: Option (d)

Explanation: Women are most affected by the lack of access to clean water in developing countries. In many cultures, it is the responsibility of women and girls to collect water for their families, which can take hours each day and prevent them from pursuing education and economic opportunities. Lack of access to clean water also increases the risk of illness and death, particularly for women and children.

Thus, the correct answer is option (d).

Difficulty Level- Hard

Bloom’s Taxonomy- Understand

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**Q36) Which of the following is a natural vegetation type found in tropical regions?**

a) Coniferous forests

b) Deciduous forests

c) Tundra vegetation

d) Tropical rainforests

Correct Answer: Option (d)

Explanation: Tropical rainforests are a natural vegetation type found in tropical regions, which are typically located near the equator. These forests are characterized by high levels of rainfall and a high diversity of plant and animal species.

Thus, the correct answer is option (d).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q37) Which of the following animals is a herbivore?**

a) Lion

b) Deer

c) Wolf

d) Eagle

Correct Answer: Option (b)

Explanation: A herbivore is an animal that eats only plants. Deer are herbivores, and they feed on leaves, grasses, and other vegetation. Lions, wolves, and eagles are carnivores, meaning they feed on other animals.

Thus, the correct answer is option (d).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q38) Which of the following is a characteristic of a desert biome?**

a) High rainfall

b) Sparse vegetation

c) Low temperatures

d) Abundant wildlife

Correct Answer: Option (b)

Explanation: Deserts are characterized by low rainfall and sparse vegetation. The lack of moisture in these areas makes it difficult for plants to grow, resulting in a limited amount of vegetation. However, some plants in deserts have adaptations such as deep roots and water storage that allow them to survive in harsh conditions.

Thus, the correct answer is option (b).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q39) Which of the following is a natural vegetation type found in temperate regions?**

a) Mangrove forests

b) Alpine vegetation

c) Tropical rainforests

d) Savanna grasslands

Correct Answer: Option (b)

Explanation: Temperate regions are characterized by moderate temperatures and moderate rainfall. Alpine vegetation is a natural vegetation type found in the high-altitude regions of temperate regions. It includes plants such as shrubs, grasses, and herbs that are adapted to the harsh conditions of the high-altitude environment.

Thus, the correct answer is option (b).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q40) Which of the following is an example of a natural habitat for a tiger?**

a) Desert

b) Arctic tundra

c) Deciduous forest

d) Coral reef

Correct Answer: Option (c)

Explanation: Tigers are native to the deciduous forests of Asia, where they hunt and live in forested areas. These forests have a mix of broadleaf trees that lose their leaves in the winter and evergreen trees that keep their leaves year-round. The mix of trees provides cover and hunting opportunities for tigers, making the deciduous forest their natural habitat.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q41) Answer the following question with reference to the audio**

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**Type: Audio**

**What is a unique characteristic of mangrove forests?**

a) They are found in cold climates.

b) They grow in freshwater lakes and rivers.

c) They are adapted to grow in brackish water.

d) They have a high altitude.

Correct Answer: Option (c)

Explanation: The unique characteristic of mangrove forests is that they are adapted to grow in brackish water, which is a mixture of fresh and saltwater. This is what makes them different from other types of forests that grow on land.

Thus, the correct answer is option (c).

Difficulty Level- Hard

Bloom’s Taxonomy- Understand

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**Q42) Answer the following question with reference to the audio**

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**Type: Audio**

**What kind of wildlife can be found in the savanna?**

a) Penguins and seals

b) Polar bears and reindeer

c) Giraffes, elephants, lions, and cheetahs

d) Kangaroos and koalas

Correct Answer: Option (c)

Explanation: The savanna is home to a variety of wildlife, including large herbivores like giraffes and elephants, as well as predators like lions and cheetahs. These animals have adapted to the grassland ecosystem of the savanna, and rely on it for their survival.

Thus, the correct answer is option (c).

Difficulty Level- Hard

Bloom’s Taxonomy- Evaluate

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**Q43) Which of the following is not a human-made feature of a settlement?**

a) Buildings

b) Roads

c) Trees

d) Parks

Correct Answer: Option (c)

Explanation: Trees are not a human-made feature of a settlement. Buildings, roads, and parks are examples of human-made features that are commonly found in settlements. Buildings provide shelter and space for various activities, while roads are used for transportation within the settlement. Parks provide recreational spaces for the residents of the settlement. However, trees are natural features that may exist within or around the settlement area.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q44) Which of the following factors does not affect the location of a settlement?**

a) Water availability

b) Soil fertility

c) Political boundaries

d) Topography

Correct Answer: Option (c)

Explanation: The location of a settlement is influenced by various factors such as water availability, soil fertility, topography, climate, and availability of natural resources. However, political boundaries are not a factor that affects the location of a settlement. Political boundaries are created by governments to define the territories under their control and have no direct influence on the location of settlements.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q45) Which of the following is an example of a rural settlement?**

a) City

b) Town

c) Village

d) Metropolis

Correct Answer: Option (c)

Explanation: A rural settlement is a type of settlement that is located in the countryside or rural areas. Villages are examples of rural settlements, whereas cities, towns, and metropolises are examples of urban settlements. Rural settlements are characterized by low population density, an agriculture-based economy, and a close relationship with nature.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q46) Which mode of transportation is best suited for transporting heavy goods over long distances?**

a) Roadways

b) Railways

c) Airways

d) Waterways

Correct Answer: Option (d)

Explanation: Waterways are the best mode of transportation for transporting heavy goods over long distances. Waterways such as rivers, canals, and seas have a large carrying capacity and can transport heavy goods such as raw materials, machinery, and construction materials. Moreover, waterways are cost-effective and environment-friendly compared to other modes of transportation such as roadways, railways, and airways.

Thus, the correct answer is option (d).

Difficulty Level- Medium

Bloom’s Taxonomy- Understand

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**Q47) Answer the following question with reference to the audio**

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**Type: Audio**

**What are the various transport facilities that have contributed to the development of human settlements?**

a) Waterways and airways

b) Railways and airways

c) Roads and railways

d) Waterways and roads

Correct Answer: Option (c)

Explanation: The passage mentions that the availability of transport facilities such as roads, railways, and airports has led to the expansion of cities and towns, and the creation of new urban centres. Therefore, it can be inferred that roads and railways are the two transport facilities that have contributed to the development of human settlements.

Thus, the correct answer is option (c).

Difficulty Level- Hard

Bloom’s Taxonomy- Remember

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**Q48) Answer the following question with reference to the audio**

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**Type: Audio**

**What are some of the negative impacts of transportation and communication systems on the natural environment?**

a) Habitat loss and soil erosion

b) Deforestation and air pollution

c) Water pollution and habitat loss

d) Air and water pollution

Correct Answer: Option (d)

Explanation: The passage mentions that the use of transportation and communication systems contributes to air and water pollution, which can harm the natural ecosystem. Therefore, air and water pollution are some of the negative impacts of transportation and communication systems on the natural environment.

Thus, the correct answer is option (d).

Difficulty Level- Hard

Bloom’s Taxonomy- Understand

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**Q49) Which of the following crops are commonly grown in tropical and subtropical regions?**

a) Wheat and Barley

b) Rice and Sugarcane

c) Corn and Soybeans

d) Potatoes and Cabbages

Correct Answer: Option (b)

Explanation: Tropical and subtropical regions have hot and humid climate which is suitable for the cultivation of certain crops. Rice and sugarcane are two of the most commonly grown crops in these regions. Rice is a staple food crop in many Asian countries such as India, China, and Thailand. Sugarcane is used to produce sugar, molasses, and ethanol, and is grown in countries such as Brazil, India, and Thailand. Other crops commonly grown in tropical and subtropical regions include bananas, coconuts, coffee, and rubber.

Thus, the correct answer is option (b).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q50) What is a major environmental challenge faced by the tropical and subtropical regions?**

a) Water scarcity

b) Soil erosion

c) Air pollution

d) Desertification

Correct Answer: Option (b)

Explanation: Soil erosion is a major environmental challenge faced by tropical and subtropical regions. These regions receive heavy rainfall which leads to the loss of topsoil and nutrients, making it difficult for crops to grow. Deforestation, overgrazing, and unsustainable agricultural practices are some of the factors that contribute to soil erosion in these regions.

Thus, the correct answer is option (b).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q51) Which of the following is a traditional method of agriculture practiced in tropical and subtropical regions?**

a) Shifting cultivation

b) Industrial agriculture

c) Organic farming

d) Hydroponics

Correct Answer: Option (a)

Explanation: Shifting cultivation, also known as slash-and-burn agriculture, is a traditional method of agriculture practiced in tropical and subtropical regions. In this method, a patch of land is cleared and crops are grown for a few years until the soil becomes depleted of nutrients. The land is then left fallow for a few years to allow it to recover before the process is repeated in another patch of land. While this method is sustainable when practiced on a small scale, large-scale commercial agriculture and deforestation have led to its negative impacts on the environment.

Thus, the correct answer is option (a).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q52) How have human activities impacted the Subtropical Region?**

a) By creating more biodiversity

b) By preserving the ecosystem

c) By leading to changes in the ecosystem and loss of biodiversity

d) Reducing the temperature

Correct Answer: Option (c)

Explanation: By leading to changes in the ecosystem and loss of biodiversity. Human activities such as urbanization and agriculture have had a significant impact on the Subtropical Region, leading to changes in the ecosystem and loss of biodiversity. This means that human activities have negatively impacted the region and led to a decrease in biodiversity.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q53)  Answer the following question with reference to the audio**

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**Type: Audio**

**What is the main threat to the Tropical Rainforest?**

a) Overgrazing by wild animals

b) Deforestation and other human activities

c) Natural disasters such as hurricanes and earthquakes

d) Climate change

Correct Answer: Option (b)

Explanation: The passage states that the Tropical Rainforest is under threat from deforestation and other human activities, which indicates that the main threat to the rainforest is human activities such as logging, mining, and agriculture. The Subtropical Region is characterized by hot and humid summers, mild winters, and a diverse range of plant and animal species. Human activities such as urbanization and agriculture have had a significant impact on this region, leading to changes in the ecosystem and loss of biodiversity.

Thus, the correct answer is option (b).

Difficulty Level- Hard

Bloom’s Taxonomy- Remember

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**Q54) Which of the following statements is true about the Tropical Rainforest?**

a) It is a simple ecosystem with only a few plant and animal species.

b) It is one of the most diverse and complex ecosystems on Earth.

c) It is located primarily in the Arctic region.

d) None of the above

Correct Answer: Option (b)

Explanation: It is one of the most diverse and complex ecosystems on Earth. The Tropical Rainforest is a complex ecosystem and is home to a wide variety of plant and animal species, many of which are found nowhere else on the planet.

Thus, the correct answer is option (b).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

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**Q55) Which of the following is a characteristic of the desert climate?**

a) Hot and humid

b) Cool and dry

c) Cold and wet

d) Warm and rainy

Correct Answer: Option (b)

Explanation: Deserts are characterized by low precipitation and high temperatures during the day, but cool temperatures at night. They are often located in areas with little to no vegetation and have extreme temperature fluctuations due to the lack of moisture in the air.

Thus, the correct answer is option (b).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

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**Q56) Which of the following animals is adapted to survive in the desert?**

a) Polar bear

b) Camel

c) Penguin

d) Kangaroo

Correct Answer: Option (b)

Explanation: Camels are well adapted to survive in the desert due to their ability to store water in their bodies and their ability to withstand high temperatures. They can go for several days without water and are also able to eat thorny plants that other animals cannot.

Thus, the correct answer is option (b).

Difficulty Level- Medium

Bloom’s Taxonomy- Remember

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**Q57) Which of the following is a method used by people to adapt to the desert environment?**

a) Building houses with sloping roofs

b) Growing rice and wheat

c) Raising sheep and cows

d) Digging wells for water

Correct Answer: Option (d)

Explanation: In the desert environment, water is scarce, and people have to rely on underground sources for their water supply. Digging wells is a common method used by people to adapt to the desert environment. Building houses with sloping roofs is a method used to adapt to snowy or rainy climates while growing rice and wheat, raising sheep and cows are agricultural practices that are not suitable for the desert environment.

Thus, the correct answer is option (d).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q58) Which of the following factors contributes to desertification?**

a) Deforestation

b) Heavy rainfall

c) Planting trees

d) Building dams

Correct Answer: Option (a)

Explanation: Deforestation is the removal of trees and other vegetation from an area, which can lead to desertification. Without vegetation, the soil is more prone to erosion and cannot retain moisture, which can lead to the desertification of an area.

Thus, the correct answer is option (a).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

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**Q59) Which of the following is not a characteristic of deserts?**

a) Low rainfall

b) High humidity

c) Extreme temperatures

d) High winds

Correct Answer: Option (b)

Explanation: Deserts cover approximately one-third of the Earth's land surface. These areas are characterized by extreme temperatures, low rainfall, and high winds. Despite these harsh conditions, deserts are home to a wide variety of plants and animals that have adapted to survive in these conditions.

Thus, the correct answer is option (b).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

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**Q60) Answer the following question with reference to the audio**

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**Type: Audio**

**What is the advantage of having small leaves or no leaves for a desert plant?**

a) It reduces water loss through transpiration

b) It allows the plant to absorb more sunlight

c) It helps the plant to camouflage itself

d) It enables the plant to store more water

Correct Answer: Option (a)

Explanation: The passage explains that desert plants have several features that help them conserve water, and having small leaves or no leaves at all reduce the surface area of the plant that is exposed to the sun, and therefore reduces the amount of water lost through transpiration.

Thus, the correct answer is option (a).

Difficulty Level- Hard

Bloom’s Taxonomy- Evaulate

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