**Q1) Answer the following question with reference to the audio**

[**https://drive.google.com/file/d/1G\_ggYR\_AnZsEAs86Q80-XVYzf4VKm0c1/view?usp=share\_link**](https://drive.google.com/file/d/1G_ggYR_AnZsEAs86Q80-XVYzf4VKm0c1/view?usp=share_link)

**Type: Audio**

**Which of the following is not a raw material required for photosynthesis?**

a) Carbon dioxide

b) Oxygen

c) Water

d) Sunlight

Correct Answer: Option (b)

Explanation: In photosynthesis, plants use carbon dioxide, water, and sunlight to produce glucose (a type of sugar) and oxygen. Oxygen is the byproduct of photosynthesis, and it is released into the atmosphere. Therefore, oxygen is not a raw material required for photosynthesis.

Thus, the correct answer is option (b).

Difficulty Level- Easy

Bloom’s Taxonomy- Understand

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q2) Which of the following is not a mode of nutrition in plants?**

a) Autotrophic nutrition

b) Heterotrophic nutrition

c) Insectivorous nutrition

d) Carnivorous nutrition

Correct Answer: option (c)

Explanation: Plants can obtain their food in two ways: autotrophic and heterotrophic nutrition. Autotrophic nutrition is when plants produce their food through photosynthesis. Heterotrophic nutrition is when plants obtain their food by consuming other organisms. Carnivorous nutrition is a type of heterotrophic nutrition, where plants eat small animals like insects. Insectivorous nutrition is not a separate mode of nutrition, it is a type of carnivorous nutrition where plants specifically eat insects.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Evaluate

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q3) Which of the following is not a type of root system in plants?**

a) Fibrous root system

b) Taproot system

c) Adventitious root system

d) Shoot root system

Correct Answer: Option (d)

Explanation: There is no such thing as a shoot root system in plants. The shoot is the above-ground part of the plant, while the root is the below-ground part of the plant. Fibrous root system is a type of root system in which there are many small, branching roots. Taproot system is a type of root system in which there is one large, central root with smaller, lateral roots branching off of it. Adventitious root system is a type of root system in which roots develop from non-root tissues, such as stems or leaves.

Thus, the correct answer is option (d).

Difficulty Level- Medium

Bloom’s Taxonomy- evaluate

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q4) Which of the following is not a factor that affects the rate of transpiration in plants?**

a) Humidity

b) Wind

c) Light intensity

d) Soil moisture

Correct Answer: Option (d)

Explanation: Soil moisture does not affect the rate of transpiration in plants, as transpiration is the loss of water vapour from the leaves of plants. Humidity, wind, and light intensity are all factors that affect the rate of transpiration. When humidity is high, the rate of transpiration is low, as the air is already saturated with water. When the wind is high, the rate of transpiration is high, as the water vapour is carried away from the leaves. When the light intensity is high, the rate of transpiration is also high, as the stomata open to allow carbon dioxide in for photosynthesis.

Thus, the correct answer is option (d).

Difficulty Level- Hard

Bloom’s Taxonomy- Understand

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q5) Which of the following is not a type of photosynthesis in plants?**

a) C3 photosynthesis

b) C4 photosynthesis

c) CAM photosynthesis

d) D3 photosynthesis

Correct Answer: Option (d)

Explanation: There is no such thing as D3 photosynthesis in plants. C3, C4, and CAM are the three types of photosynthesis in plants. C3 photosynthesis is the most common type and takes place in most plants. C4 photosynthesis is found in plants that live in hot and dry environments, such as tropical grasses. CAM photosynthesis is found in plants that live in arid environments, such as cacti and succulents.

Thus, the correct answer is option (d).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q6) In which of the following situations would a plant most likely use CAM photosynthesis?**

a) In a wet, tropical rainforest

b) In a hot, desert

c) In a cool, temperate forest

d) In a wetland with constantly fluctuating water levels

Correct Answer: Option (b)

Explanation: CAM (Crassulacean Acid Metabolism) photosynthesis is a type of photosynthesis that is found in plants living in hot and dry environments. In this type of photosynthesis, the stomata of the plant open at night, allowing the plant to take in carbon dioxide, which is then stored in the form of an organic acid. During the day, when the stomata are closed to conserve water, the plant uses the stored carbon dioxide to carry out photosynthesis. Therefore, in a hot, desert where water is scarce, a plant would most likely use CAM photosynthesis to conserve water and still carry out photosynthesis.

Thus, the correct answer is option (b).

Difficulty Level- Very Hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q7 )Which of the following is the process by which animals break down food to release energy?**

a) Respiration

b) Digestion

c) Circulation

d) Excretion

Correct Answer: Option (a)

Explanation: Digestion is the process by which animals break down food into smaller molecules that can be absorbed and used by the body. This process occurs in the digestive system, which includes the mouth, oesophagus, stomach, and intestines. Respiration is the process by which animals take in oxygen and release carbon dioxide to provide energy to the body. Circulation is the movement of blood through the body to transport oxygen and nutrients. Excretion is the elimination of waste products from the body.

Thus, the correct answer is option (a).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q8) Which of the following is the function of the large intestine in the digestive system of animals?**

a) Absorbing nutrients

b) Breaking down food

c) Storing waste

d) Producing bile

Correct Answer: Option (c)

Explanation: The large intestine, also known as the colon, is the last part of the digestive system in animals. Its main function is to absorb water and electrolytes from undigested food material and to store waste until it is eliminated from the body. The small intestine is the primary site of nutrient absorption, while the liver produces bile to aid in the digestion of fats.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q9) Which of the following is a function of the liver in the digestive system?**

a) Producing bile

b) Breaking down food

c) Absorbing nutrients

d) Eliminating waste

Correct Answer: Option (a)

Explanation: The liver is an important organ in the digestive system that performs a variety of functions. One of its main functions is to produce bile, which helps break down fats in the small intestine. The liver also plays a role in the metabolism of carbohydrates, proteins, and fats, and it stores nutrients and vitamins for later use. Breaking down food occurs primarily in the stomach and small intestine, while absorbing nutrients occurs mainly in the small intestine. Elimination of waste occurs in the large intestine**.**

Thus, the correct answer is option (a).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q10) Answer the following question with reference to the audio**

[**https://drive.google.com/file/d/1js3QIa2OyHBxEcPig-trAyzIkG6L0Tjk/view?usp=share\_link**](https://drive.google.com/file/d/1js3QIa2OyHBxEcPig-trAyzIkG6L0Tjk/view?usp=share_link)

**Type: Audio**

**Which of the following is a common symptom of iron deficiency anaemia?**

a) Fatigue

b) Diarrhoea

c) Insomnia

d) Fever

Correct Answer: Option (a)

Explanation: Iron deficiency anaemia occurs when there is not enough iron in the body to produce haemoglobin, which is a protein in red blood cells that carries oxygen. One of the most common symptoms of iron deficiency anaemia is fatigue, as the body is not receiving enough oxygen to function properly. Other symptoms may include weakness, shortness of breath, dizziness, and pale skin. Diarrhoea, insomnia, and fever are not typically associated with iron deficiency anaemia.

Thus, the correct answer is option (a).

Difficulty Level- Medium

Bloom’s Taxonomy- Remember

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q11) Which of the following hormones is responsible for regulating blood sugar levels in the body?**

a) Oestrogen

b) Testosterone

c) Insulin

d) Adrenaline

Correct Answer: Option (c)

Explanation: Insulin is a hormone produced by the pancreas that regulates blood sugar levels in the body. It helps glucose (sugar) from the food we eat to enter our cells and be used for energy or stored for later use. Oestrogen and testosterone are hormones that play a role in sexual development and reproductive health, while adrenaline is a hormone that is released during times of stress and can increase heart rate and blood pressure.

Thus, the correct answer is option (c).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q12) Which of the following vitamins is important for the production of collagen in the body?**

a) Vitamin A

b) Vitamin C

c) Vitamin D

d) Vitamin B

Correct Answer: Option (b)

Explanation: Vitamin C is important for the production of collagen, which is a protein that is found in the skin, bones, and other connective tissues in the body. Vitamin A is important for vision and skin health, vitamin D is important for the absorption of calcium and phosphorus, and vitamin E is an antioxidant that helps protect cells from damage. However, none of these vitamins play a direct role in collagen production.

Thus, the correct answer is option (c).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q13) Answer the following question with reference to the audio**

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**Type: Audio**

**Which of the following is a natural fibre obtained from the cocoon of the silkworm?**

a) Polyester

b) Nylon

c) Cotton

d) Silk

Correct Answer: Option (d)

Explanation: Silk is a natural fibre that is obtained from the cocoon of the silkworm. It is valued for its smooth texture and lustrous appearance, and is commonly used in the production of clothing, bedding, and other textiles. Polyester and nylon are synthetic fibres that are produced from petroleum-based chemicals, while cotton is a natural fibre that is obtained from the seeds of the cotton plant.

Thus, the correct answer is option (d).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q14) Which of the following is a traditional method of dyeing fabric that uses natural dyes?**

a) Tie-dyeing

b) Batik

c) Screen printing

d) Digital printing

Correct Answer: Option (b)

Explanation: Batik is a traditional method of dyeing fabric that uses natural dyes, such as indigo, to create intricate patterns on the fabric. It involves applying wax to the fabric to create a resist, which is then dyed to create the desired pattern. Tie-dyeing is a method of dyeing fabric by tying it in knots or using other methods to create patterns, while screen printing and digital printing are methods of applying ink to fabric to create patterns or designs.

Thus, the correct answer is option (b).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q15) Which of the following is a synthetic fibre that is commonly used in carpets and upholstery?**

a) Cotton

b) Wool

c) Nylon

d) Silk

Correct Answer: Option (c)

Explanation: Nylon is a synthetic fibre that is known for its strength, durability, and resistance to abrasion. It is commonly used in carpets, upholstery, and other applications that require a tough, resilient material. Cotton and wool are natural fibres, while silk is a natural protein fibre that is known for its lustre and softness.

Thus, the correct answer is option (b).

Difficulty Level- Medium

Bloom’s Taxonomy- Understand

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q16) Which of the following is a type of fabric that is made by interlacing two or more sets of yarns or threads?**

a) Woven fabric

b) Knitted fabric

c) Non-woven fabric

d) Felted fabric

Correct Answer: Option (a)

Explanation: Woven fabric is a type of fabric that is made by interlacing two or more sets of yarns or threads at right angles to each other. This creates a strong, stable fabric that is suitable for a wide range of applications. Knitted fabric is made by interloping yarns or threads, while the non-woven fabric is made by bonding or felting fibres together without weaving or knitting them. Felted fabric is made by compressing fibres together to create a dense, textured material.

Thus, the correct answer is option (a).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q17) Which of the following is a fabric that is made by bonding two or more layers of fabric together using heat, pressure, or adhesive?**

a) Felted fabric

b) Knitted fabric

c) Non-woven fabric

d) Laminated fabric

Correct Answer: Option (d)

Explanation: Laminated fabric is a type of fabric that is made by bonding two or more layers of fabric together using heat, pressure, or adhesive. This creates a strong, durable fabric that is often used in outdoor gear, bags, and other applications that require a waterproof or water-resistant material. Felted fabric is made by compressing fibres together to create a dense, textured material, while knitted fabric is made by interloping yarns or threads. Non-woven fabric is made by bonding or felting fibres together without weaving or knitting them.

Thus, the correct answer is option (d).

Difficulty Level- Hard

Bloom’s Taxonomy- Remember

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q18) Which of the following is a synthetic fibre that is known for its high strength-to-weight ratio and is often used in bulletproof vests and other protective gear?**

a) Polyester

b) Kevlar

c) Nylon

d) Acrylic

Correct Answer: Option (b)

Explanation: Kevlar is a synthetic fibre that is known for its high strength-to-weight ratio, making it an ideal material for bulletproof vests, helmets, and other protective gear. Polyester, nylon, and acrylic are also synthetic fibres, but they are typically used in different applications. Polyester is commonly used in clothing and home furnishings, while nylon is used in carpets, upholstery, and other applications that require a tough, resilient material. Acrylic is often used as a substitute for wool in clothing and home furnishings.

Thus, the correct answer is option (b).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q19) What is the name of the device that measures the temperature of an object?**

a) Barometer

b) Thermometer

c) Hygrometer

d) Anemometer

Correct Answer: Option (b)

Explanation: A thermometer is a device that measures the temperature of an object or the surrounding environment. It works by using a temperature-sensitive material, such as mercury or alcohol, which expands or contracts as the temperature changes, and is then read off a scale to determine the temperature.

Thus, the correct answer is option (b).

Difficulty Level- Easy

Bloom’s Taxonomy- Evaluate

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q20) What is the process by which heat is transferred through a material by direct contact called?**

a) Radiation

b) Convection

c) Conduction

d) Fusion

Correct Answer: Option (c)

Explanation: Conduction is the process by which heat is transferred through a material by direct contact. This occurs when two objects at different temperatures are in contact with each other, and the heat energy flows from the hotter object to the cooler object.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Understand

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q21) What is thermal expansion?**

a) The process by which heat is transferred through a fluid or gas

b) The process by which a substance changes from a solid to a liquid state

c) The process by which a substance changes in size due to changes in temperature

d) The process by which a substance changes from a liquid to a gas state

Correct Answer: Option (c)

Explanation: Thermal expansion is the process by which a substance changes in size due to temperature changes. When a substance is heated, its particles begin to vibrate more quickly, causing the substance to expand. This is why metal bridges and train tracks have expansion joints - to allow for the expansion and contraction of the metal due to temperature changes.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Understand

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q22) What is the relationship between temperature and heat energy?**

a) They are the same thing

b) Temperature is the measure of the amount of heat energy in a substance

c) Heat energy is the measure of the amount of temperature in a substance

d) There is no relationship between temperature and heat energy

Correct Answer: Option (b)

Explanation: Temperature is the measure of the amount of heat energy in a substance. However, it is important to note that temperature is not the same as heat energy - the temperature is a measure of how hot or cold something is, while heat energy is a measure of the total amount of energy stored in a substance.

Thus, the correct answer is option (b).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q23) What is the name of the law that states that the rate of heat transfer is proportional to the temperature difference between two objects?**

a) Boyle's Law

b) Newton's Law

c) Ohm's Law

d) Fourier's Law

Correct Answer: Option (d)

Explanation: Fourier's Law, also known as the law of thermal conduction, states that the rate of heat transfer is proportional to the temperature difference between two objects. It is named after French mathematician Joseph Fourier.

Thus, the correct answer is option (d).

Difficulty Level- Hard

Bloom’s Taxonomy- Remember

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q24) What is the name of the process by which a substance changes from a solid directly to a gas, without passing through a liquid state?**

a) Evaporation

b) Sublimation

c) Condensation

d) Deposition

Correct Answer: Option (b)

Explanation: Sublimation is the process by which a substance changes from a solid directly to a gas, without passing through a liquid state. This process can occur when a substance is heated and its vapour pressure exceeds the atmospheric pressure, causing the solid to gas form. Examples of substances that undergo sublimation include dry ice (solid carbon dioxide) and mothballs (naphthalene).

Thus, the correct answer is option (b).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q25) Answer the following question with reference to the audio**

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**Type: Audio**

**Which of the following substances is a strong acid?**

a) Vinegar

b) Lemon juice

c) Hydrochloric acid

d) Soap solution

Correct Answer: Option (c)

Explanation: Hydrochloric acid is a strong acid because it completely dissociates in water to produce hydrogen ions () and chloride ions (). Vinegar and lemon juice are weak acids, and soap solution is a base.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q26) Which of the following is a characteristic property of acids?**

a) They have a bitter taste

b) They turn litmus paper blue

c) They react with bases to form salts and water

d) They have a pH greater than 7

Correct Answer: Option (c)

Explanation: Acids are substances that donate hydrogen ions () in solution, while bases accept hydrogen ions. When an acid reacts with a base, the hydrogen ions and hydroxide ions combine to form water, and the remaining ions form a salt. Acids typically have a sour taste, turn litmus paper red, and have a pH less than 7

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q27) What happens when a strong acid is added to water?**

a) The pH of the water increases

b) The water becomes a stronger acid

c) The water becomes a stronger base

d) The pH of the water decreases

Correct Answer: Option (d)

Explanation: When a strong acid is added to water, it dissociates almost completely to form hydrogen ions () and anions. The hydrogen ions then combine with water molecules to form hydronium ions (), which increases the concentration of ions in the solution. This results in a decrease in the pH of the solution, making it more acidic.

Thus, the correct answer is option (d).

Difficulty Level- Medium

Bloom’s Taxonomy- Evaulate

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**Q28) Which of the following statements is true about acids and bases?**

A) Acids have a pH greater than 7 and bases have a pH less than 7.

B) Acids have a pH less than 7 and bases have a pH greater than 7.

C) Acids have a pH of 7 and bases have a pH of 14.

D) Acids have a pH of 14 and bases have a pH of 7

Correct Answer: Option (b)

Explanation: pH is a measure of how acidic or basic a substance is. A pH of 7 is neutral, while a pH less than 7 is acidic and a pH greater than 7 is basic or alkaline. Acids have a pH less than 7 because they release hydrogen ions () in solution, while bases have a pH greater than 7 because they release hydroxide ions () in solution.

Thus, the correct answer is option (b).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

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**Q29) Which of the following is a strong base?**

a) Ammonia ()

b) Sodium hydroxide ()

c) Potassium hydroxide ()

d) Calcium hydroxide ()

Correct Answer: Option (b)

Explanation: Sodium hydroxide is a strong base because it dissociates completely in water to form and ions. Ammonia is a weak base and only partially dissociates in water. Potassium hydroxide and calcium hydroxide are also strong bases, but they are less commonly used in everyday life than sodium hydroxide

Thus, the correct answer is option (b).

Difficulty Level- Hard

Bloom’s Taxonomy- Remember

$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$

**Q30) Which of the following statements is true about acid-base reaction?**

a) In an acid-base reaction, the acid always donates a proton () to the base

b) In an acid-base reaction, the base always donates a proton () to the acid

c) In an acid-base reaction, the acid always accepts a proton () from the base

d) In an acid-base reaction, the base always accepts a proton () from the acid

Correct Answer: Option (a)

Explanation: In an acid-base reaction, the acid always donates a proton () to the base. This process is called proton transfer or acid dissociation. The base accepts the proton from the acid, forming a conjugate acid, while the acid becomes a conjugate base. The opposite is true in a reverse reaction, where the conjugate acid donates a proton to the conjugate base.

Thus, the correct answer is option (a).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q31) Answer the following question with reference to the audio**

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**Type: Audio**

**Which of the following is an example of a chemical change?**

a) Dissolving sugar in water

b) Boiling water to produce steam

c) Burning wood to produce ash

d) Crushing a can

Correct Answer: Option (c)

Explanation: In a chemical change, the identity of the substance changes. Burning wood to produce ash is an example of a chemical change because the wood is converted into new substances (carbon dioxide, water vapour, and ash) during the burning process.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q32) Answer the following question with reference to the audio**

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**Type: Audio**

**What is an example of a physical change?**

a) Burning wood

b) Rusting iron

c) Boiling water

d) Cooking an egg

Correct Answer: Option (c)

Explanation: A physical change is a change in the physical properties of a substance without changing its chemical composition. Boiling water is an example of a physical change because it changes the physical state of water from a liquid to a gas without altering its chemical composition

Thus, the correct answer is option (c).

Difficulty Level- medium

Bloom’s Taxonomy- Understand

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q33) Which of the following is a chemical property of matter?**

a) Colour

b) Odour

c) Ability to burn

d) Melting point

Correct Answer: Option (c)

Explanation: A chemical property of matter is a property that describes how a substance interacts with other substances to form new substances. Ability to burn is a chemical property as it describes the chemical reaction that occurs when a substance is burned.

Thus, the correct answer is option (c).

Difficulty Level- medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q34) Which of the following is not a characteristic of a physical change?**

a) The change is reversible

b) The chemical composition of the substance remains the same

c) The change results in the formation of new substances

d) The change may involve a change in state

Correct Answer: Option (c)

Explanation: Physical changes do not result in the formation of new substances, but rather changes in the physical properties of the substance. Physical changes are generally reversible, meaning that the original substance can be restored after the change. For example, water can be frozen into ice and then melted back into water without any change in its chemical composition.

Thus, the correct answer is option (c).

Difficulty Level- medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q35) Which of the following is not a characteristic of a chemical change?**

a) The change is irreversible

b) The chemical composition of the substance changes

c) The change may involve the release or absorption of energy

d) The change may produce new substances with different chemical properties

Correct Answer: Option (a)

Explanation: Chemical changes can be either reversible or irreversible, depending on the nature of the reaction. However, the other options are all characteristics of chemical changes, as they involve a change in the chemical composition of the substance, the release or absorption of energy, and the production of new substances with different chemical properties.

Thus, the correct answer is option (a).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q36) Which of the following is an example of a physical change?**

a) Burning of gasoline

b) Digesting food

c) Dissolving copper in acid

d) Cutting a piece of paper

Correct Answer: Option (d)

Explanation: Cutting a piece of paper is an example of a physical change because it does not result in the formation of new substances with different chemical properties. It only changes the physical shape and size of the paper. The other options are examples of chemical changes, as they involve the formation of new substances through chemical reactions.

Thus, the correct answer is option (d).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q37) Which of the following animals is adapted to hot and dry climate?**

a) Penguin

b) Camel

c) Polar bear

d) Reindeer

Correct Answer: Option (b)

Explanation: Camels are well-adapted to living in a hot, arid climate because they have a number of adaptations that help them conserve water, such as the ability to store water in their humps and the ability to produce dry faeces to conserve water. They also have broad, padded feet that help them walk on hot sand and a thick coat that protects them from the sun.

Thus, the correct answer is option (b).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q38) Which of the following is an example of an adaptation of desert animals to their environment?**

a) Migration to colder regions

b) Hibernation during the winter

c) Burrowing underground

d) Living in trees

Correct Answer: Option (c)

Explanation: Burrowing underground is an adaptation of many desert animals such as the desert tortoise and the sand gazelle. It helps them to escape the hot sun and stay cool during the day.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Understand

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q39) Which of the following is an example of an animal adaptation to high altitudes?**

a) Increased lung capacity

b) Strong wings for flight

c) Long legs for running

d) Thick fur coat

Correct Answer: Option (a)

Explanation: Increased lung capacity is an example of an animal adaptation to high altitudes. At high altitudes, the air contains less oxygen, so animals that live in these environments have evolved larger lungs or other mechanisms to extract oxygen more efficiently from the air.

Thus, the correct answer is option (a).

Difficulty Level- Medium

Bloom’s Taxonomy- Evaluate

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q40) Which of the following is an example of an animal adaptation to desert environments?**

a) Burrowing underground

b) Long legs for running

c) Shedding fur

d) Large ears for hearing

Correct Answer: Option (a)

Explanation: Burrowing underground is an example of an animal adaptation to desert environments. By burrowing underground, animals can escape the intense heat and conserve water, as the temperature underground is cooler and there is more moisture available.

Thus, the correct answer is option (a).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q41) Which of the following is an example of a physiological adaptation to climate?**

a) Hibernation of a bear

b) Migration of birds to warmer climates in the winter

c) Sweating of a human

d) Camouflage of a chameleon

Correct Answer: Option (c)

Explanation: Sweating is a physiological adaptation to climate that helps humans regulate their body temperature in hot environments. When the body gets too hot, it sweats to release heat and cools the body down. This is an example of a physiological adaptation because it involves changes in the functioning of the body's systems

Thus, the correct answer is option (c).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

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

[**https://drive.google.com/file/d/1QNFpoaaWiaG9mHoeUbD2u9M0c5iZidXW/view?usp=share\_link**](https://drive.google.com/file/d/1QNFpoaaWiaG9mHoeUbD2u9M0c5iZidXW/view?usp=share_link)

**Type: Audio**

**Which of the following animals is best adapted to live in a cold climate?**

a) Elephant

b) Penguin

c) Crocodile

d) Camel

Correct Answer: Option (b)

Explanation: Penguins are well-adapted to live in a cold climate because they have a thick layer of insulating feathers and a layer of blubber to keep them warm. They also have a streamlined body shape that reduces heat loss and makes swimming easier.

Thus, the correct answer is option (b).

Difficulty Level- Hard

Bloom’s Taxonomy- Evaluate

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q43) What is a thunderstorm?**

a) A type of cyclone

b) A type of wind

c) A type of storm that produces lightning and thunder

d) A type of cloud

Correct Answer: Option (c)

Explanation: A thunderstorm is a type of storm that produces lightning and thunder. It is often accompanied by heavy rain and strong winds. While thunderstorms can be dangerous, they are not as severe as cyclones or hurricanes.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Remember

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q44) Answer the following question with reference to the audio**

[**https://drive.google.com/file/d/13HjW9Iz1P1KfQ3\_9J1AwTICGXsfarllV/view?usp=share\_link**](https://drive.google.com/file/d/13HjW9Iz1P1KfQ3_9J1AwTICGXsfarllV/view?usp=share_link)

**Type: Audio**

**Which of the following is a characteristic of a tropical cyclone?**

a) Low-pressure centre

b) High-pressure centre

c) Cold air mass

d) Stable atmospheric conditions

Correct Answer: Option (a)

Explanation: A tropical cyclone is a low-pressure system with sustained winds of at least 74 mph (119 km/h) that form over warm ocean waters. The low-pressure centre is the area of the storm where the air is rising.

Thus, the correct answer is option (a).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q45) Answer the following question with reference to the audio**

[**https://drive.google.com/file/d/184lcsCLFtJOfGc5Hi-G9-RIjAgzBiP\_N/view?usp=share\_link**](https://drive.google.com/file/d/184lcsCLFtJOfGc5Hi-G9-RIjAgzBiP_N/view?usp=share_link)

**Type: Audio**

**Which of the following is a characteristic of a thunderstorm?**

a) High atmospheric pressure

b) Dry air

c) Lightning

d) Cool temperatures

Correct Answer: Option (c)

Explanation: A thunderstorm is a type of weather event that involves lightning, thunder, and precipitation. It is caused by the rapid heating and cooling of the atmosphere, which creates instability and convection currents.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q46) Which of the following is a characteristic of a tornado?**

a) High atmospheric pressure

b) Warm air

c) Slow wind speeds

d) Rotating column of air

Correct Answer: Option (d)

Explanation: A tornado is a violent and destructive rotating column of air that is in contact with both the surface of the Earth and a cumulonimbus cloud. It is characterised by strong winds, sometimes exceeding 300 mph (480 km/h), and can cause significant damage to buildings and other structures.

Thus, the correct answer is option (d).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q47) What is the difference between a cyclone and a hurricane?**

a) A cyclone occurs in the Atlantic Ocean, while a hurricane occurs in the Pacific Ocean.

b) A cyclone is a rotating low-pressure system, while a hurricane is a rotating high-pressure system.

c) A cyclone is a general term for a rotating storm, while a hurricane is a specific type of cyclone that forms in the Atlantic Ocean.

d) A cyclone is a type of storm that forms over land, while a hurricane forms over water.

Correct Answer: Option (c)

Explanation: A cyclone is a general term that is used to describe any rotating storm system, including hurricanes, typhoons, and tropical storms. A hurricane is a specific type of cyclone that forms in the Atlantic Ocean, typically between June and November**.**

Thus, the correct answer is option (c).

Difficulty Level- Hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q48) What is the cause of a tornado?**

a) Convection currents

b) Hurricanes

c) Thunderstorms

d) Earthquakes

Correct Answer: Option (c)

Explanation: Tornadoes are typically associated with thunderstorms, and they form when warm, moist air meets cool, dry air, creating instability in the atmosphere. The resulting convection currents can cause the air to spin, leading to the formation of a tornado. Hurricanes and earthquakes are not directly related to tornado formation.

Thus, the correct answer is option (c).

Difficulty Level- Hard

Bloom’s Taxonomy- Understand

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q49) Answer the following question with reference to the audio**

[**https://drive.google.com/file/d/1acSQstlnwS4hm43WgfQOAe-jZQnOlPuN/view?usp=share\_link**](https://drive.google.com/file/d/1acSQstlnwS4hm43WgfQOAe-jZQnOlPuN/view?usp=share_link)

**Type: Audio**

**Which of the following is not a factor that affects soil formation?**

a) Climate

b) Topography

c) Time

d) The age of the soil

Correct Answer: Option (d)

Explanation: The age of the soil is not a factor that affects soil formation. Instead, factors such as climate, topography, and time influence the formation of soil over hundreds or thousands of years.

Thus, the correct answer is option (d).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q50) Which of the following is a benefit of soil conservation?**

a) Increased erosion

b) Decreased soil fertility

c) Increased soil erosion

d) Protection of soil fertility

Correct Answer: Option (d)

Explanation: Soil conservation is the practice of protecting soil from degradation, erosion, and depletion. By conserving soil, we can protect its fertility and productivity, which is essential for sustainable agriculture and food production. Soil conservation also helps to prevent soil erosion and the loss of topsoil, which can lead to decreased productivity and increased environmental damage.

Thus, the correct answer is option (d).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q51) Which of the following is not a function of soil?**

a) Providing support for plant roots

b) Holding and storing water

c) Providing nutrients for plants

d) Producing oxygen through photosynthesis

Correct Answer: Option (d)

Explanation: Soil plays an important role in plant growth by providing support for plant roots, holding and storing water, and providing essential nutrients. However, the soil does not produce oxygen through photosynthesis, which is a process carried out by green plants and algae.

Thus, the correct answer is option (d).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q52) Which of the following is a way to conserve soil**?

a) Overgrazing

b) Deforestation

c) Crop rotation

d) Leaving soil bare and exposed

Correct Answer: Option (c)

Explanation: Crop rotation is a method of planting different crops in the same field in a sequence to help maintain soil health and fertility. This practice can help prevent soil erosion, reduce the need for fertilisers and pesticides, and promote sustainable agriculture. Overgrazing, deforestation, and leaving soil bare and exposed can all contribute to soil degradation and erosion.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q53) What is soil erosion?**

a) The process of soil formation

b) The removal of minerals from the soil

c) The loss of topsoil due to wind or water

d) The addition of organic matter to the soil

Correct Answer: Option (c)

Explanation: Soil erosion is the process of the loss of topsoil due to wind or water. Topsoil is the upper layer of soil that contains most of the nutrients and organic matter that plants need to grow. When topsoil is eroded, it can lead to decreased soil fertility, decreased productivity, and increased environmental damage. Soil erosion can be caused by factors such as deforestation, overgrazing, improper farming practices, and natural disasters such as floods and landslides

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Understand

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q54) Which of the following soil horizons is characterised by the accumulation of organic matter?**

a) A horizon

b) B horizon

c) C horizon

d) O horizon

Correct Answer: Option (d)

Explanation: The O horizon, also known as the organic horizon, is characterised by the accumulation of organic matter such as leaves, twigs, and animal waste. This organic matter provides nutrients for plant growth and contributes to the overall fertility of the soil.

Thus, the correct answer is option (d).

Difficulty Level- Hard

Bloom’s Taxonomy- Remember

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q55) Which of the following is not a type of respiration?**

a) Aerobic respiration

b) Anaerobic respiration

c) Photosynthetic respiration

d) Fermentation

Correct Answer: Option (c)

Explanation: Photosynthesis is the process by which plants and some other organisms convert light energy into chemical energy. It is not a type of respiration. Aerobic respiration requires oxygen and occurs in the presence of oxygen, while anaerobic respiration occurs in the absence of oxygen. Fermentation is a type of anaerobic respiration in which glucose is broken down without the use of oxygen to produce ATP and other waste products.

Thus, the correct answer is option (c).

Difficulty Level- Easy

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q56) Which of the following is not a process involved in respiration?**

a) Inhalation

b) Exhalation

c) Digestion

d) Cellular respiration

Correct Answer: Option (c)

Explanation: Digestion is the process by which food is broken down into smaller molecules that can be absorbed and used by the body. It is not directly involved in respiration, which refers to the process by which cells convert oxygen and glucose into energy.

Thus, the correct answer is option (c).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q57) Which of the following is the main product of respiration?**

a) Carbon dioxide

b) Oxygen

c) Glucose

d) Water

Correct Answer: Option (a)

Explanation: Carbon dioxide is one of the main products of respiration, along with water and energy (in the form of ATP). During respiration, cells use oxygen and glucose to produce energy, releasing carbon dioxide and water as waste products.

Thus, the correct answer is option (a).

Difficulty Level- Medium

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q58) Which type of respiration occurs when there is an absence of oxygen?**

a) Aerobic respiration

b) Anaerobic respiration

c) Photorespiration

d) Exhalation

Correct Answer: Option (b)

Explanation: Anaerobic respiration occurs when there is an absence of oxygen. It is a less efficient process than aerobic respiration and produces a smaller amount of ATP. The two types of anaerobic respiration are alcoholic fermentation and lactic acid fermentation.

Thus, the correct answer is option (b).

Difficulty Level- Medium

Bloom’s Taxonomy- Understand

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q59) Which of the following is a waste product of anaerobic respiration in animals?**

a) Carbon dioxide

b) Water

c) Ethanol

d) Oxygen

Correct Answer: Option (c)

Explanation: Alcoholic fermentation is a type of anaerobic respiration that occurs in some microorganisms and plants. In animals, lactic acid fermentation is the type of anaerobic respiration that occurs, and the waste product is lactic acid.

Thus, the correct answer is option (c).

Difficulty Level- Hard

Bloom’s Taxonomy- Remember

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**

**Q60) Which of the following is true about respiration in plants?**

a) Respiration in plants only occurs during the day

b) Plants do not produce carbon dioxide during respiration

c) Respiration in plants occurs in all cells

d) Plants only undergo aerobic respiration

Correct Answer: Option (c)

Explanation: Like animals, plants also undergo respiration to produce energy (ATP) from glucose. Respiration in plants occurs in all cells, including the roots, stems, leaves, and flowers. Unlike animals, plants also undergo photosynthesis to produce their food (glucose), and they release oxygen as a byproduct of photosynthesis.

Thus, the correct answer is option (c).

Difficulty Level- Very hard

Bloom’s Taxonomy- Analyze

**$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$**