**CLASS 6 SCIENCE QUESTIONS & ANSWERS**

A well developed ovary is called \_\_\_\_\_\_\_\_

1. Seed (b) Embryo (c) **Fruit**

**Reason:** In fruit formation, it is the ovary that develops into fruit.

A well developed ovule of a flowering plant is called \_\_\_\_\_\_?

1. **Seed** (b) Embryo (c) Fruit

**Reason:** In seed formation, it is the ovule that develops into a seed.

The part of the plant which forms the short system is called

1. **Plumule**  (b) Radicle (c) Cotyledon

**Reason:** In the parts of a seed, the shoot system is the top part of the seed. The plumule forms that system

The part of seed that forms the root system is called \_\_\_\_\_\_\_?

1. Embryo (b) Endosperm (c) **Radicle**

**Reason:** In the parts of a seed, the root system is the bottom part of the seed that forms the root. The **radicle** forms that system.

Which of these parts of the seed allows water and gas in and out?

1. Hilum (b) **Micropyle**  (c) Seed Coat

**Reason:** It has a small opening in the surface of the ovule, through which water and gas pass in and out.

\_\_\_\_\_\_\_\_\_ is the process whereby the embryo inside a seed develops into seedling.

1. Fertilization (b) **Germination** (c) Reproduction

**Reason:** Embryo development into seedling is only done through germination

Which of these parts of a seed stores food?

1. Hilum (b) Plumule (c) **Endosperm**

Reason: The Endosperm surrounds the embryo and provides nutrition in the form of starch. This nutrition formed is stored as food.

Spreading of seeds and fruits abroad is termed as \_\_\_\_\_\_\_\_?

1. **Seeds and Fruit dispersal** (b) Wind Dispersal (c) Explosion mechanism

**Reason:** This is the term used to describe the spreading of fruits and seeds in foreign areas.

Which of these is not an agent of dispersal?

1. Water (b) **Seeds and fruits dispersal** (c) Animals

**Reason:** Seeds and fruits dispersal is not the agent. Agents are; water, animals etc.

The outer part of a seed that protects the inner parts is termed as \_\_\_\_\_\_\_\_\_\_\_?

1. **Testa** (b) Hilum (c) Embryo

**Reason:** This is the outer cover of a seed.

Which of these fruits contain only one seed?

1. Bean (b) **Mango**  (c) Watermelon

Bubbles indicate the presence of \_\_\_\_\_\_\_?

1. Air (b) Water (c) Oxygen

**Reason:** Air finds its way into pockets of space, bubbles in liquids represent this.

Which of these gases support burning?

1. Nitrogen (b) **Oxygen**  (c) Carbon dioxide

**Reason:** Fire is a chemical reaction that draws oxygen from the air to continue burning.

One of these gases is used in a fire extinguisher

1. Nitrogen (b) Oxygen (c) **Carbon dioxide**

**Reason:** Carbon dioxide is non-conductive (does not conduct electric current or **heat**)

Which of these is a disease that affects okro?

1. **Damping off** (b) Rust (c) Corn smut

**Reason:** This is the only disease among the 3 mentioned that affect okro. Other 2 affect maize.

Which of these diseases affect maize?

1. Wet rot (b) White mold (c) **White leaf bright**

**Reason:** Only disease among them that affects maize

One of these pests attack okro

1. **Nematodes** (b) Locust (c) Stalk borer

**Reason:** Only attacks okro

Malaria is caused by a parasite called \_\_\_\_\_\_\_?

1. Anopheles (b) Nematode (c) **Plasmodium**

Which of the following is a vector of plasmodium?

1. Water flea (b) **Mosquito** (c) Tick

**Reason:** A mosquito is a disease causing agent. It is the vector of plasmodium (malaria parasite)

Which of the following is a symptom of malaria?

1. Blood seen in urine (b) Backache (c) **Headache**

The following are conditions that discourage mosquito breeding except \_\_\_\_\_\_\_\_?

1. Desilted gutters (b) Empty refuse bins (c) **Bushy areas**

Malaria is spread by the female mosquito called?

1. Tsetse fly (b) **Anopheles** (c) Tick

**Reason:** Malaria is caused by the female anopheles mosquito.

Mosquito eggs develop into \_\_\_\_\_\_\_\_?

1. **Larvae** (b) Pupa (c) Adult mosquito

**Reason:** It is a life cycle which is from the egg of the mosquito to the larvae to the pupa and lastly to the adult mosquito.

The male mosquito spreads plasmodium

1. True (b) **False** (c) None

**Reason:** Plasmodium is a malaria parasite that is spread into healthy people by the **female anopheles mosquito.**

\_\_\_\_\_\_\_\_\_\_ is the process whereby enzymes and chemicals in the body of living things breakdown food substances into their smallest unit for absorption into the blood stream.

1. Respiration (b) Ingestion (c) **Digestion**

**Reason:** Digestion is the breaking down of food substances into its simplest unit or form.

\_\_\_\_\_\_\_\_\_\_\_ is the use of absorbed food substances by cells of the body of living organisms.

1. Respiration (b) **Assimilation** (c) Ingestion

**Reason:** Assimilation is the use of the simplest form of food by the cells after digestion occurs.

Which of these is a passage that runs from the mouth to the anus?

1. Oesophagus (b) Intestine (c) **Alimentary canal**

**Reason:** This is the organ that food passes through. The mouth, oesophagus, stomach and intestine are part of the human alimentary canal.

Digestion starts from the \_\_\_\_\_\_?

1. **Mouth** (b) Intestine (c) Stomach

**Reason:** Digestion of carbohydrates starts in the mouth.

Digestion of fat happens in the

1. Mouth (b) Caecum (c) **Small Intestine**

**Reason:** The small intestine produces a chemical which can be used for the breakdown of fats.

The end digestion product of starch is \_\_\_\_\_\_\_\_?

1. Amino acid (b) **Glucose** (c) Fatty acid and glycerol

**Reason:** Glucose is the end product of carbohydrate (starch) digestion

What is the end product of protein?

1. **Amino acid** (b) Glucose (c) Fatty acid and glycerol

**Reason:** This is the end product of protein digestion.

The end product of fats and oil is \_\_\_\_\_\_\_\_?

1. Amino acid (b) Glucose (c) Fatty acid and glycerol

Reason: This is the end product of protein digestion.

Which of these parts of the digestive system is the site for masticating of food?

1. Stomach (b) **Mouth** (c) Intestine

**Reason:** Masticating (chewing) is performed in the mouth.

\_\_\_\_\_\_\_\_\_ is the process whereby energy is released from food to living organism for their activities.

1. Excretion (b) **Respiration**  (c) Digestion

The instrument used to control temperature is called?

1. Gauge (b) Inductor (c) **Thermometer**

**Reason:** This is the instrument used to measure temperature of a body or place.

Which of these components store electrical energy?

1. Thermometer (b) **Capacitor** (c) Gauge

**Reason:** It is used to store energy in an electric field.

These electrical components store energy except?

1. Inductor (b) **Switch** (c) Capacitor

**Reason:** Switch is used to control currents. A switch controls the inflow and outflow of current.

The symbol “&&&&” is \_\_\_\_\_\_\_\_\_\_?

1. Capacitor (b) Transformer (c) **Inductor**

\_\_\_\_\_\_\_\_\_\_ is a coiled wire of a conductivity material

1. **Conductor** (b) Capacitor (c) Insulator

**Reason:** Conductor is a material that allows electrical current to pass through them easily. Examples are aluminium and copper.

\_\_\_\_\_\_\_\_\_\_ is the process of changing raw material into a form which is consumable.

1. Food Fermentation (b) **Food processing** (c) Food preservation

**Reason:** This is the only method raw food is able to be consumed.

The method of keeping food from going bad is?

1. **Food preservation** (b) Food Fermentation (c) Food drying

**Reason:** These are all the methods used to prolong food going bad examples are smoking, freezing etc.

When a person becomes ill after eating is termed as \_\_\_\_\_\_\_?

1. Sickness (b) **Food poisoning** (c) Illness

All these cause food poisoning except?

1. **Virus**  (b) Yeast (c) Mould

**Reason:** A virus is not a food poisoning causing agent

\_\_\_\_\_\_\_\_ are harmful occurrences that are not caused by man.

1. Food poisoning (b) Digestion (c) **Natural disaster**

These are all signs of poisoned food except?

1. Bad food odor (b) Tasteless food (c) **Succulent food**

A seed is a fertilized ovary

1. True (b) **False** (c) None

**Reason:** A seed is a fertilized ovule

There are \_\_\_\_\_\_\_\_\_ types of fruits based on development.

1. **2**  (b) 3 (c) 4

**Reason:** There are only 2 types of fruits based on development; True Fruits and False fruits

A Pear is an example of \_\_\_\_\_\_\_ fruit

1. True (b) **False** (c) Original

**Reason:** The fruit development is from the ovary

How many kinds of fruits do we have?

1. **2**  (b) 3 (c) 4

**Reason:** There are two kinds of fruits, they are; dry fruits and fleshy/succulent fruits

Coconut is a \_\_\_\_\_\_ fruit

1. **Dry**  (b) Fleshy (c) Wet

**Reason:** Coconuts have a hard and dry epicarp (fruit wall)

Soft epicarp fruits are also known as?

1. Dry fruits (b) **Fleshy fruits** (c) True fruits

**Reason:** Fleshy fruits have soft and juicy epicarps

Micropyle \_\_\_\_\_\_\_\_?

1. Consists of radical and plumule
2. Covers the coat and protects it
3. **Allows water and gas in and out of the seed during germination**

**Reason:** Micropyle is an opening in the seed**,** this opening allows water and gas to pass through it.

Radicle \_\_\_\_\_\_?

1. **Forms the root system**
2. Forms the shoot system
3. Stores food substances

**Reason:** Radicle grows downwards, this forms the root system.

Endosperm \_\_\_\_\_\_\_?

1. Covers the coat and protects it
2. **Stores food substances**
3. Transfers food substances

**Reason:** The endosperm stores food substances

Cotyledon \_\_\_\_\_\_\_\_?

1. Stores food substances
2. Shows the position of the seed stalk
3. **Transfers food substances from the endosperm to radical and plumule.**

**Reason:** Cotyledon transfers food substances from the endosperm (food substances) to root and shoot system.

Nitrogen forms \_\_\_\_\_\_\_\_\_\_ of air component

1. 21.0% (b) **78.0%** (c) 0.03%

**Reason:** Nitrogen forms the highest percentage of air components

Carbon dioxide forms part of the air component

1. **True** (b) False (c) None

**Reason:** Carbon dioxide is 0.03% of air component

Air can occupy space

1. **True** (b) False (c) None

**Reason:** Air has mass and can occupy space

Air has fixed volume

1. True (b) **False** (c) None

**Reason:** Air has no fixed shape and volume

Okro is a scavenger crop because

1. They are strong and grow quickly
2. **They depend on decaying matter**
3. They are green crops

**Reason:** Okro is a scavenger crop that depends on decaying matter or residual fertilizer

Okro is grown on \_\_\_\_\_\_\_ soil

1. Sandy loamy (b) Clayey sandy (c) **Clayey loamy**

**Reason:** Okro requires warm weather to flourish and clayey loamy soil can provide this condition

Okro seeds are soaked before planting

1. **True** (b) False (c) None

**Reason:** Okro seeds have hard coat, their seeds are soaked overnight prior to planting

Water related diseases are diseases caused by still drinking water

1. True (b) **False** (c) None

**Reason:** Water related diseases are caused by contaminated water

Water related diseases are only caused by drinking contaminated water.

1. True (b) **False** (c) None

**Reason:** They can be caused by drinking, bathing or sometimes touching contaminated water.

Cholera and malaria are not examples of water related diseases

1. True (b) **False** (c) None

**Reason:** Insects such as flies and mosquitoes breed in contaminated water and cause these diseases.

\_\_\_\_\_\_\_\_\_\_\_\_ is the vector of the malaria parasite

1. Plasmodium (b) **Female anopheles mosquito** (c) Adult mosquito

**Reason:** The female anopheles mosquito carries the malaria parasite to the healthy person

The parasite in the female anopheles mosquito enters the \_\_\_\_\_\_\_\_\_\_\_\_\_?

1. Stomach (b) **Salivary gland** (c) Mouth

**Reason:** The parasite is carried in the salivary gland of the female anopheles mosquito. The mosquito injects the parasite into the healthy person.

Sweating, Shivering and loss of appetite are all examples of malaria symptoms

1. **True** (b) False (c) None

Some people mistake typhoid fever to malaria, why?

1. **Because they show some similar symptoms**
2. Because they are caused by the same insect
3. Because they last for the same amount of time

**Reason:** They show similar symptoms like headache, fever, cold and loss of appetite.

Fishes can control mosquitoes

1. **True**  (b) False (c) None

**Reason:** Introduction of fishes into mosquito breeding ponds will help control outbreak since fish feed on mosquitoes.

There are 3 stages in the life cycle of a mosquito.

1. True (b) **False** (c) None

**Reason:** There are four (4) stages in the life cycle of a mosquito. They are; egg, lava, pupa and adult mosquito

The stages in the life cycle of a mosquito are;

1. Egg, Pupa, Larva and Adult mosquito
2. **Egg, Larva, Pupa and Adult mosquito**
3. Egg, Pupa, anopheles and Adult mosquito

**Reason:** The egg hatches into larva and the larva grows into the Pupa then grows into the adult mosquito.

Feeding can be categorized into two (2) main types

1. **True** (b) False (c) None

**Reason:** The two types are autotrophic and heterotrophic feeding.

Autotrophic feeding is a type of feeding performed by plants and some animals.

1. True (b) **False**  (c) None

**Reason:** This a type of feeding performed by only plants. Autotrophic feeding is a process where plants prepare their own food.

Plants prepare their own food by using simple raw materials such as water, sunlight, chlorophyll and?

1. Oxygen (b) **Carbon dioxide** (c) Nitrogen

**Reason:** Plants need Carbon dioxide from animals to prepare their own food. They turn this carbon dioxide into oxygen that animals use to breathe.

Plants can undergo heterotrophic feeding

1. True (b) **False** (c) None

Electricity is a form of energy generated when electrons move from one point to another through an insulator.

1. True (b) **False**  (c) None

**Reason:** Electrons cannot move in an insulator but can move through conductors

The flow of electric current in the electric circuit is aided by?

1. Electrical insulators (b) Electrical holders (c) **Electrical components**

**Reason:** Electrical components aid the flow of electric current. Example; switch, bulb etc.

The flow of electric current from the electromagnetic force (EMF) throughout the circuit diagram is?

1. Open circuit (b) incomple (c) **Closed circuit**

**Reason:** Close circuit has no disconnection of switch. The current flows throughout the circuit diagram.

The arrangement of more than one of any components in the circuit diagram horizontally to each other is \_\_\_\_\_?

1. Parallel circuit (b) **Series circuit** (c) Close circuit

**Reason:** Series circuit is the arrangement done horizontally on the diagram.

Poor drainage system prevents flood

1. True (b) **False** (c) None

**Reason:** Poor drainage system causes flood

The process whereby raw food materials are transformed into consumable products is \_\_\_\_?

1. Food preservation (b) **Food processing** (c) Cooking

What is the main purpose for food processing?

1. To give the food a good taste
2. To make food presentable
3. **To prolong the life span of food**

**Reason:** Prolonging the life span of food is the main reason we process food

Which is the oldest method of preserving food?

1. Canning (b) Freezing (c) **Drying**

**Reason:** Drying was used before any of these new technologies came about to aid in food preservation.

The main reason why the life span of food is prolonged when preserved is because \_\_\_\_\_?

1. The micro organisms in the food are increased
2. **The micro organisms in food are killed**
3. The food can repel poison.

Reason: All methods used to preserve food kill the micro organism in the food. The organism cause food to go bad and without their presence food can be prolonged.

Any illness from eating contaminated food is called \_\_\_\_\_\_\_?

1. Food decaying (b) Stomach ache (c) **Food poisoning**

An example of micro-organisms which grow in food is \_\_\_\_\_?

1. Virus (b) **Bacteria** (c) Protozoa

Electronics is the branch of science that deals with the study of the flow and control of \_\_\_?

1. Electrical components (b) **Electrons** (c) Electrical circuit

**Reason:** Electronics is the flow and management of electrons

A coiled wire of a conductive material is a \_\_\_\_\_\_\_?

1. Conductor (b) **Insulator**  (c) Inductor

**Reason:** This stores energy in a magnetic field form. It can be copper or aluminium.

With the use of inductors, when a circuit is open the LED will \_\_\_\_\_\_\_?

1. Go off immediately (b) will not come on (c) **Will not go off immediately**

**Reason:** There will be stored current in the inductor so when the inductor is discharged the LED glows for a while before eventually going off.

What mode of feeding is practiced by goats?

1. **Herbivorous** (b) Carnivorous (c) Omnivorous

**Reason:** Herbivorous feeding is when the animal feeds only on herbs or plants, Goats feed on only plants.

Feeding on both plants and animals is known as \_\_\_\_\_\_?

1. Herbivorous feeding (b) Carnivorous feeding (c) **Omnivorous feeding**

**Reason:** This is feeding on both plants and animals. Examples are; man, cat, dogs.

The process of taking in air and letting it out is known as \_\_\_\_\_?

1. **Breathing** (b) Respiration (c) Inhaling

**Reason:** Breathing is inhaling and exhaling air, it does not deal with any added chemical means or production of energy.

Oxygen taken into the system that breaks down food substances to release energy is known as?

1. Digestion (b) **Respiration**  (c) Breathing

**Reason:** Respiration uses oxygen obtained from the air we breathe to break down food substances to release energy.

Animals breathe in carbon dioxide and breathe out oxygen and plants take in oxygen and release carbon dioxide.

1. True (b) **False** (c) None

**Reason:** Animals breathe in oxygen and breathe out carbon dioxide whilst plants take in carbon dioxide and release oxygen.

Who uses more energy; A person walking or a person sitting?

1. **A person walking** (b) A person sitting (c) They use the same amount of energy

**Reason:** A person walking will use more energy because he will need to take in more oxygen into the system to break down glucose into energy. A person sitting on the other hand does not use as much energy because there is no activity taking place.

The \_\_\_\_\_\_\_\_ is also known as the buccal cavity

1. Stomach (b) Small intestine (c) **Mouth**

**Reason:** The mouth is also known as the buccal cavity. It is the site for chewing and swallowing food

The end product of Fat and oil is \_\_\_\_\_?

1. Glucose (b) Amino acid (c) **Glycerol**

The digestion site of fat and oil is?

1. Mouth (b) Stomach (c) **Small intestine**

The digestion site of rice is?

1. **Mouth** (b) Stomach (c) Small intestine

**Reason:** Rice is a carbohydrate and the digestion site of carbohydrates is the mouth

White mold is an okro \_\_\_\_\_\_?

1. Pest (b) **Disease**  (c) Variety

**Reason:** White mold is a disease which attacks okro

Maize grows well in \_\_\_\_\_\_\_

1. Clay soil (b) Sandy soil (c) **Loamy soil**

**Reason:** Loamy soil has all the soil nutrients needed for maize growth.

Planting arrangement of maize must be done well in order to \_\_\_\_\_\_\_\_?

1. Help in easy harvest
2. Easy identification of crop
3. **Allow aeration and prevent overcrowding**

**Reason:** It gives better aeration to maize and prevents spread of plant diseases due to the prevention of over crowdedness

Spreading of seeds from their origin is known as \_\_\_\_\_\_?

1. Fruits and seeds dispersal (b) Fruits dispersal (c) **Seeds dispersal**

The various ways by which fruits and seeds are dispersed is known as \_\_\_\_\_\_\_

1. Types of fruit and seed dispersal
2. **Agents of fruits & seed dispersal**
3. Variety of fruit and seed dispersal

Germination is the process by which embryo in the seed develops into fruit

1. True (b) **False** (c) None

**Reason:** During germination, the embryo in the seed develops into seedlings not fruit.