

Name: _____ Index No: _____

School: _____ Centre No: _____

REPUBLIC OF SOUTH SUDAN
PRIMARY LEAVING EXAMINATION

TIME: 2HOURS

PLE SCIENCE 2013

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SECTION A.

Circle the correct answer from the following alternatives A, B, C and D.

1. _____ is one of the sexually transmitted diseases.

a. Malaria

b. Gonorrhea

c. Diarrhea

d. Cough

2. Which of the following is not a symptom of gonorrhea?

a. Difficulty in passing urine

b. Discharge of pus

c. Tooth pain

d. Pain when passing urine

3. Conditions necessary for photosynthesis are _____

a. Water and carbon dioxide

b. Oxygen and water

c. Carbon dioxide, water and sunlight

d. Water and sunlight

4. Users of heroin suffer from _____

a. Constant drowsiness

b. Night blindness

- c. Diarrhea
 - d. Cough
5. When a certain amount of air increase
- a. **Its volume increases**
 - b. It remains the same
 - c. Temperature increases
 - d. Volume decreases

Put a tick (✓) against the correct statement and cross (X) against the false the statement in the following.

- 1. Percentage of nitrogen in air is 21%. (X)
- 2. Copper is a good conductor of heat. (✓)
- 3. Retina is not inner lining of the back of the eye. (X)
- 4. Drugs are substance which are used for prevention, cure and diagnosis of disease. (✓)
- 5. Barometer is an instrument used for measuring humidity. (X)
- 6. Human body consists of 25% water. (X)
- 7. The use of animals dug is for making manure. (✓)
- 8. Effect of drug abuse are not damaging the nervous system. (X)
- 9. Fishes are very good sources for our blood. (✓)
- 10. The bright star is called dog star. (✓)

(A) Fill in the blank space below.

- 1. The male sex cells in mammals are called sperms
- 2. Use the female reproductive organ below to answer the question that follow.



Name the parts marked by letter (a, b, c and d) in the space provided.

A. Uterus

B. Ovary

C. Cervix

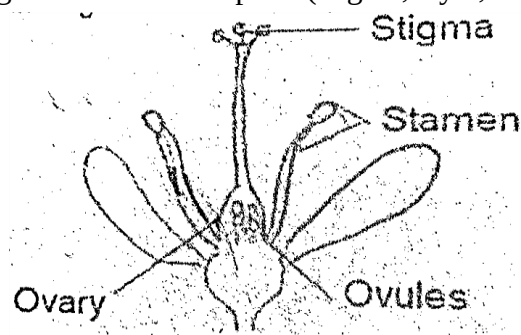
D. Oviduct/fallopian tube

(B) Fill in the blank space with the correct words or group of words.

1. The process by which green plants manufacture their own food is known as **photosynthesis**.
2. A tube that allows air to pass from the inner ear to the throat to equalize pressure in ear drum is called **Eustachian tube**.
3. Materials that light can pass through them are called **transparent materials**.
4. A base is chemical compound that reacts with acids to form **salt** and water.
5. AIDs is caused by virus known as **HIV (Human Immune Virus)**

Question four.

1. Mention only five sources of water.
 - a. **Rivers**
 - b. **Lakes**
 - c. **Dam**
 - d. **Rainfall**
 - e. **Swamp**
2. Draw a pollinating flower and label parts (stigma, style, stamen, ovary and ovule)



SECTION TWO (45 MARKS)

Question one (14 marks)

- a. Mention only two uses of ash
- ✓ It is used as a pesticide
 - ✓ It can be used to fertilize the soil
- b. Give only three differences between plants and animals.

Animals	Plants
Animals are able to move	Plants don't move
Animals respire by means of lungs	Plants respire by means of stomata
The cell of animals have no cell wall	The cell of plants have a cell wall

- c. Mention two types of plant pollination
- ✓ Self-pollination
 - ✓ Cross-pollination

Question two (10marks)

- a. Put the following names into their correct places (stars, flames, electric lamp, sun, moon)

Natural	Artificial
Sun	Electric bulb
Stars	Fire
Moon	Flame

- b. Light travels in a **straight line.**
- c. Images formed on the film at the back of the camera are always **inverted/upside down.**

Question three (10marks)

Match the information in column A with the one in column B. Write each piece of information in column B in the correct spaces in the answer column.

Answer column	Column A	Column B
Fertilization	The male cells (sperm) unite the female eggs	Air
Embryo	The part that develops into a chick	Hatching
Air space	Is where gases are exchanged during the development of an embryo	The shell

Recycling	Treating already used materials to be used again	Fertilization
The shell	The hard outer cover of an egg	The Yolk
The Yolk	Yellow in colour and is the source of fat for the embryo	Air space
Iris	The coloured part of the eye	Re-cycling
Magnet	Used in picking up pin, razorblade and nails	The embryo
Air	Has no definite shape and size	Magnet
Hatching	Time for the chick to come out of the cell	Iris

Question four (3marks)

Give three examples of food chain.

- ✓ **Leaves – caterpillar – hen**
- ✓ **Leaves – goat – lion**
- ✓ **Grass – grasshopper – birds – snake**

Question five (5 marks)

- a) Define the word energy. **Energy is the ability to do work.**
- b) The two ends of a magnet are called **north** and **south.**
- c) Magnets that are made by electric currents are called **electro magnet.**
- d) Materials that allow electricity to pass through them are called **conductors** while those which do not allow electricity to pass through them are called **insulators.**

Question six (4 marks)

Briefly define the following

1. Pulley
Is the lever that can swing all the way round
2. Satellite
Is the body that revolve around a planet.

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REPUBLIC OF SOUTH SUDAN
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PLE SCIENCE 2014

SECTION A.

Question one (5 marks)

Put a tick (✓) against the correct statement and a cross (x) against the false statement in the following.

- a) Syphilis is caused by spiral-shaped bacteria called *trapezoma palladium*. (✓)
- b) Maturity in human beings takes place between 7 and 10 years. (X)
- c) Oxygen is a gas which is necessary for the process of photosynthesis. (X)
- d) Re-cycling of materials means treating already used one to be used again. (✓)
- e) Molecules are very small particles which make up air. (✓)

Question two (10marks)

Fill in the blank space with the correct words.

- a) A magnet made by electric current is called **electro-magnet.**
- b) Babies that will be born when the fertilized eggs of a woman are divided into two equal parts are called **identical twins.**
- c) All materials that allow electricity to pass through them are called **conductors of electricity.**
- d) The word satellite means **an attendant or is a body that revolves around a planet.**
- e) AIDS is caused by a virus called **HIV (Human Immune Virus)**

Question three (5 marks)

Circle the correct letter of the answer provided

1. The average weather condition of a place is called _____
 - a. Rainfall
 - b. Cloud
 - c. Temperature
 - d. Climate**
2. Which part of the ear contains the three smallest bones in human body?
 - a. Inner ear
 - b. Middle ear**
 - c. Outer ear
 - d. Ear drum
3. The acid produced by stomach in human body is called _____
 - a. Citric acid
 - b. lactic acid
 - c. hydrochloric acid**
 - d. amino acid
4. The machine that uses electricity to keep food much cooler is called _____
 - a. Refrigerator**
 - b. Simple cooler
 - c. Traditional heater
 - d. Charcoal cooler
5. The percentage of water in the human body is _____
 - a. 45%
 - b. 62%
 - c. 70%
 - d. 65%**

Question four (10 marks)

Briefly answer the following questions.

1. Mention the function of egg Yolk in an egg.

It's the source of fat for the embryo in the process of development

2. In the space provided below, draw a structure of a bean and label the part called seed coat.



3. Name the green colouring matter in plant which traps energy from the sun. **Chlorophyll**
4. Write any one class of lever you know. **First class lever, second class lever, third class lever.**
5. In the diagram below, name the parts labelled with letter x.

Question five (10marks)

Match the information in column A with the corresponding in column B in the answer column.

Column A	Answer column	Column B
The drug obtained from the leaves of coco plant	Cocaine	Litmus paper
The study of weather is known as	Meteorology	Food chain
An area around which a magnet can pick up magnetic materials	Magnetic field	Cocaine
The special paper used to test the presence of acid or alkaline	Litmus paper	Heat conversation
The gestation period of a domestic dog	61 days	Are gaeses
The term hydro means	Water	meteorology
The feeding relationship between animals and plants refers to as	Food chain	Magnetic fields
The smallest other gases that make up air are called	Rear gases	Water
The process of maintaining heat energy so that it is not lost into air around the source of heat is	Heat conservation	Saw dust
The product produced by sawing wood is called	Saw dust	61 days

SECTION B (60MARKS)

Answer all the questions in this section in the spaces provided.

1. Mention two ways of controlling drug abuse.
 - ✓ **Safe keeping of drugs**
 - ✓ **Awareness of the danger of drug abuse**
2. List the two properties of magnet.
 - ✓ **Magnet only attract magnetic materials**
 - ✓ **Magnet force passes through non-magnetic material but not through magnetic one**
3. Outline any two changes observed during adolescent period in girls.
 - ✓ **The breast starts to come out**
 - ✓ **Menstruation cycle starts**
4. What is constellation?
 - ✓ **Constellation are groups of stars which are seen in a specific area of the sky at night.**
5. The bright star is also called **Sirius or dog star.**
6. Give the functions of the following parts of the human eye.
Pupil: **allow light enter the eye through the lens**
Retina: **is where images are formed**
7. State any two symptoms of gonorrhea.
 - ✓ **Pain when passing urine**
 - ✓ **Red swollen eye**
8. Give any two major functions of human skin.
 - ✓ **It excretes sweats**
 - ✓ **It regulates body temperature**
9. a) What is meant by the volume of sound?
 - ✓ **Is the softness or loudness of sound**b) Outline any two factors which determine the pitch of sound.
 - ✓ **Nature of the vibrating material**

- ✓ **Tension**
- ✓ **Size of vibrating object**

10. State any two industrial use of water.

- ✓ **Used as cleaning agent**
- ✓ **Used as cooling agent**

11. Write two observations when an acid solution is mixed with a base solution in the proper amount.

- ✓ **The acid losses its sour taste and its ability to turn litmus paper red.**
- ✓ **The base losses its ability to turn red litmus paper blue**

12. a) Define the term weather.

- ✓ **Weather is the condition of the atmosphere of a certain area during a certain period.**

b) Mention any two elements of weather.

- ✓ **Temperature**
- ✓ **Humidity**
- ✓ **Rainfall**

13. a) What is a simple machine?

- ✓ **Is a device which makes work easier**

b) List any two examples of a simple machine.

- ✓ **Gear**
- ✓ **Inclined plane**

14. The mass of an object is 200gm. If its volume is 50cm³, find its density.

Mass = 200gm

Volume = 50cm³

Density = ?

Density =

15. Mention any two examples of antisocial behaviors commonly found in the community.

- ✓ **Alcoholism, stealing, smoking, fighting**

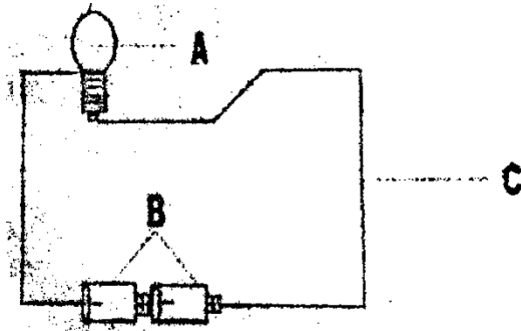
16. a) Cross pollination means

- ✓ **The transfer of pollen grains from the anther to the stigma of another flower of the same kind.**

b) Outline any two agents of pollination

- ✓ **Insects**
- ✓ **Wind**
- ✓ **Birds**

17. The diagram below is of an electric circuit. Use it to answer the questions that follow.



a) Name the parts labelled A and B in the diagram.

A. Bulb

B. Batteries/dry cell

b) Apart from light energy, give one other form of energy produced by the part labelled A and B closed.

- ✓ **Heat energy**

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PLE SCIENCE 2015

SECTION A.

Question one.

Circle the correct letter of the answer provided.

1. Which of the simple machines make the work easier?
 - a. Wood
 - b. Inclined plane**
 - c. Load
 - d. Balance tool
2. When acids mix with bases, it forms _____
 - a. Salt and base
 - b. Acid and water
 - c. Salt and water**
 - d. Water and acid
3. Which of the following is a way of extracting salt from sea water?
 - a. Transpiration
 - b. Weathering
 - c. Recreation
 - d. Evaporation**
4. What factor is not needed for photosynthesis to take place?
 - a. Wind**
 - b. Light

- c. Water
 - d. Carbon dioxide
5. The study of weather over a period of 24 hours is _____
- a. Meteorologist**
 - b. Meteorology
 - c. Meteorological
 - d. Weathering

Question two.

Put a tick (✓) against the correct statement and a cross (X) against the false statement.

- 1. Blood transfusion is not the correct way of transmitting HIV/AIDs. (X)
- 2. The gestation period of an elephant is 645 days. (✓)
- 3. The volume of air when it is heated, increases. (✓)
- 4. Cornea is not a transparent covering for the coloured part of the eye. (X)
- 5. Copper wire are bad conductors of electricity. (X)

Question three

Fill in the blank space with a suitable word.

- 1. The special paper used to test for the presence of alkalis is called **litmus paper.**
- 2. Which part of the ear directs air waves to the ear drum **auditory canal.**
- 3. The process of digesting food involves **chewing.**
- 4. The distance through which the force applied moved the object is known as **work**
- 5. The pilot and sailors find their position by means of **navigation satellite.**

Question four.

Match the information in column A with the corresponding information in column B in the answer column.

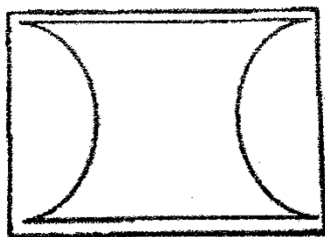
Column A	Answer column	Column B
A place where wild animals are kept is called	Zoo	Poor eye sight
The lining inside the back of an eye is called	Retina	Sulfuric acid
Ash can be filtered to produce	Salt	Inner ear
The organs of balance are found in the	Inner ear	Zoo
The group of stars which are seen in a specific area of the sky at night is called	Constellation	Testes

If one form of energy changes into another form of energy is called	Transformation	Constellation
The strongest inorganic acid is called	Sulphuric acid	Parasites
A pair of oval shaped organs in a man is called	Testes	Retina
Animals which attach themselves to the body of a host are called	Parasites	Salt
The users of heroin suffer from	Poor eye sight	transformation

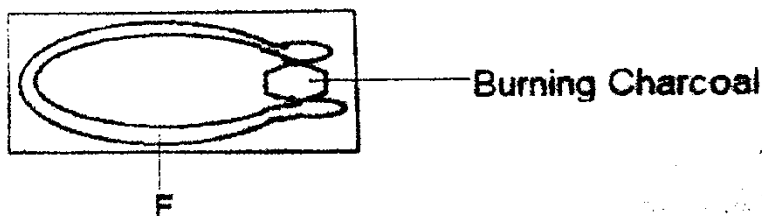
Question five.

Briefly answer the following questions.

1. Mention any one use of water in a farm.
 - ✓ **For washing tools eg hoe etc**
 - ✓ **Watering plants**
2. In the space provided below, draw a diagram of concave lens.



3. Give one sign of gonorrhea in a new born child.
 - ✓ **Red swollen eyes**
 - ✓ **Pus in the swollen eye**
4. Write any one example of a natural magnet.
 - ✓ **Lodestone**
 - ✓ **The earth**
5. The diagram below is of simple machine, on it indicate with a letter (F) the position of fulcrum.



SECTION B.

Question one.

a) Write two symptoms of amoebic dysentery.

- ✓ **High fever**
- ✓ **Vomiting**
- ✓ **Diarrhea**
- ✓ **Loss of appetite**

Question two.

The mass of substance is 18kg and the density is 0.2g/cm^3 . Find its volume.

Given;

Density = 0.2g/cm^3

Mass = 18kg

Volume = ?

Volume =

Question three.

1. What is a star?

- ✓ **Star is a large mass in a space that consists of glowing gases**

2. Name the largest planet in the solar system.

- ✓ **It is the Jupiter**

Question four.

a) What does the term climate mean?

Is the term used to describe the average weather condition of a place.

b) Name the instrument used to measure humidity.

Hygrometer

Question five

a. Mention two functions of the kidney.

- ✓ **Kidney removes waste products from the body in the form of urine.**
- ✓ **Kidney filter blood in the body.**

Question six

- a) Define the word light.

Light is a form of energy that enable us to see.

- b) Give two uses of light from natural source.

- ✓ **It helps green plants make their own food**
- ✓ **Light from the sun helps us to see.**

Question seven.

- a) State two uses of carbon-dioxide

- ✓ **It is used in fire extinguishers for putting off fire**
- ✓ **It helps green plants make their own food**

Question eight.

- a) Give any two examples of air-borne disease apart from tuberculosis

- ✓ **Influenza**
- ✓ **Mumps**
- ✓ **Meningitis**

Question nine

- a) Define the term gravity

It is force that acts on an object on the earth

- b) Give two disadvantages of friction

- ✓ **Friction cause wear and tear**
- ✓ **Friction produces harmful heat**

Question ten.

- a) What happens when a bar magnet is freely suspended?

Its end come to a stand-still, pointing to the north-south direction

- b) Mention two ways of making a magnet

- ✓ **By rubbing**
- ✓ **By using electric current**

Question eleven.

- a) Outline four causes of water pollution you know.

- ✓ **Urinating in water source**
- ✓ **Digging pit latrine near water sources**
- ✓ **Throwing dead animals and rubbish into water sources**
- ✓ **Bathing where people get water for use**

Question twelve.

- a) Mention two ways of conserving wild animals.
- ✓ **Controlling hunting**
 - ✓ **Controlled burning of bushes and forests**
 - ✓ **Games parks and game reserves**
- b) List two examples of aquatic animals.
- ✓ **Fish**
 - ✓ **Crocodile**
 - ✓ **Frog**
 - ✓ **Snake**

Question thirteen.

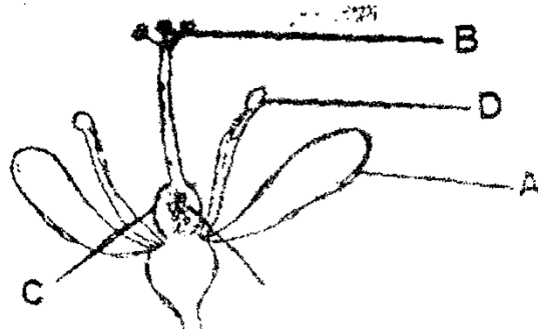
- a) Give two components of blood vessels
- ✓ **Arteries**
 - ✓ **Capillaries**
 - ✓ **Veins**

Question fourteen.

- a) Name two sources of sound
- ✓ **Drum**
 - ✓ **Guitar**
 - ✓ **Bell**
- b) List two devices used to store sound
- ✓ **Cassette tape**
 - ✓ **Compact disc (CD)**
 - ✓ **Memory card**

Question fifteen.

The diagram below is of a flowering plant, use it to answer the questions that follow.



- a) Name the parts labelled with letters

B = stigma

C = ovary

- b) Give the function of the parts marked with letter

A Petal: attract insect for pollination

B Anther: produces pollen grains

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SECTION A.

Question one (5marks)

Tick (✓) the correct statement and cross (X) the wrong statement in the following.

1. Many people do not know the changes and implications of drug abuse. (✓)
2. The body of the healthy human being does not consist of about 65% water. (X)
3. The female reproductive system in human being consists of one ovary. (X)
4. Carnivorous animals feed on meat of other animals. (✓)
5. Weather is the condition of the atmosphere of a certain area during a certain period. (✓)

Question two (5 marks)

Circle the correct letter of answers provided.

1. Light enters camera through the _____
 - a. Torch
 - b. Lens**
 - c. Box
 - d. Film
2. Fertilization in human takes place in the _____
 - a. Fallopian tube**
 - b. Penis
 - c. Cervix
 - d. Vagina
3. Hydro-electricity is the type of electricity produced by using _____

- a. Sun light
 - b. Petroleum energy
 - c. Water**
 - d. Coal
4. The process by which pollen grains are transferred from one flower to another of the same kind is called
- a. Insect pollination
 - b. Wind pollination
 - c. Cross pollination**
 - d. Self-pollination
5. Which of the following materials is magnetic?
- a. Paper
 - b. Wood
 - c. Iron**
 - d. Rubber

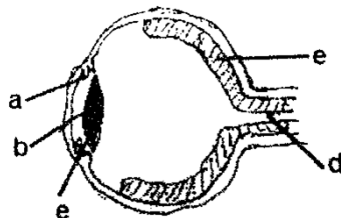
Question three (5 marks)

Fill in the blank space with the correct words.

1. Sexually transmitted diseases can be passed from one person to another through **sexual contact**.
2. **Sea** water contains the common salt that we use in our homes normally known as table salt.
3. A compass has a magnetized **needle** which always points to the north.
4. All materials that allow electricity to pass through them are called **conductors of electricity**.
5. **Gears** are simple machine consisting of a series of cog wheels.

Question four (10 marks)

In the diagram below, name the parts labelled with letters a, b, c and d.



- a. Iris
- b. Pupil
- c. Lens
- d. Optic nerves
- e. Retina

SECTION B (30 MARKS)

Question one (5 marks)

Match information in column A with the corresponding information in column B in the answer column.

Column A	Answer column	Column B
One of the organic acid	Grape fruit	Constellation
Specific group of stars seen at night	Constellation	Solar panels
It is used to test the presence of acids or alkalis	Litmus paper	Water borne disease
Used for producing electricity	Solar panels	Litmus paper
Transmitted by contaminated water or food	Water borne disease	Grape fruit

Question two (10marks)

Briefly answer the following questions.

1. Mention any one symptom of gonorrhea.
 - ✓ **Pain when passing urine**
 - ✓ **Difficult to pass urine**
 - ✓ **Red swollen eyes**
2. State one of the changes observed in boys during adolescence.
 - ✓ **Hair starts to grow around the private part and armpits**
 - ✓ **Voice deepens**
 - ✓ **They start to experience wet dreams**

3. In the space provided below, draw two magnet bars of opposite poles attracting each other.



4. When acids mix with base it forms salt and water.
5. Define the word 'matter'

Matter is anything that occupies space and has weight.

Question three (5marks)

Circle the correct answer from the alternatives a, b, c and d.

1. Which of the chemicals is used to purify water?
 - a. Sodium chloride
 - b. Chlorine**
 - c. Soda ash
 - d. Tar
2. Which of the following is a method of making water safe for human use?
 - a. Distillation
 - b. Boiling
 - c. Chlorination
 - d. All the above are correct**
3. The part of the flower that attracts insects to the brightly coloured flowers is _____
 - a. Sepal
 - b. Stigma
 - c. Petal**
 - d. Style
4. Temperature is described as _____
 - a. The amount of water vapour in the atmosphere
 - b. The degree of heat in the atmosphere**
 - c. Air pressure
 - d. Humidity

5. An example of a simple machine is _____
- a. A conductor
 - b. An insulator
 - c. A hammer
 - d. A lever**

Question four (10marks)

- a) Define the following words

1. Curative

These are medicines in the form of tablets, syrup or injections.

2. Fertilization

Is fusion of male and female gametes to form zygote

- b) Mention three factors affecting the rate of photosynthesis

✓ **Chlorophyll**

✓ **Water**

✓ **Carbon dioxide**

✓ **Light**

✓ **Warmth**

SECTION C (30MARKS)

Answer all questions in this section in the spaces provided

Question one (10 marks)

1. Give only two differences between animals and plants.

Animals	Plants
Animals are able to move	Plants do not move
Animals respire by means of lungs	Plants respire by means of stomata

2. Name only three of the planets found in the universe.

✓ **Jupiter**

✓ **Mars**

✓ **Venus**

✓ **Earth**

3. Outline at least three states in which matter exist.

✓ **Solid**

✓ **Gas**

✓ **Liquid**

Question two (10marks)

Write the function of the following

1. The shell of an egg

It protects the inside part of the egg

2. An anther of a flower

It produces the pollen grains

3. State one use of the following

a) Anemometer

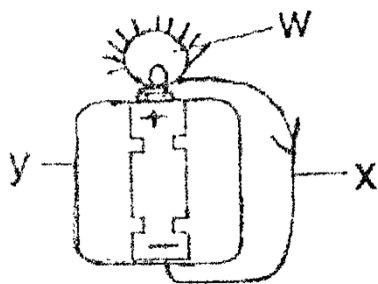
It measures or tells the speed of the wind

b) Inorganic acid

They are used in the production of other chemicals, fertilizers, paints and plastics.

Question three (5marks)

1. Name the part of a simple electric circuit drawn below.



W. Bulb

X. Electric wire

Y. Dry cell/battery

2. Give two agents of pollination

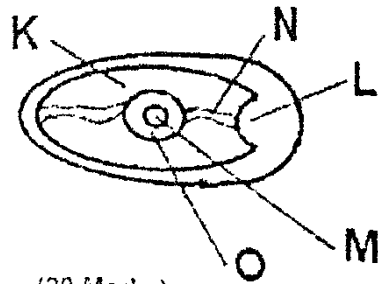
✓ **Insects**

✓ **Wind**

✓ **Birds**

✓ **Water**

The diagram below is the structure of an egg, label the parts marked by letters K, L, M, N and O.



K. Albumen
L. Air space
M. Embryo
N. Chord
O. Egg Yolk

Question four (20marks)

Put **true** or **false** in the bracket provided at the end of the statements below.

1. Heat from the fire travels through the air as radiation (**True**)
2. The sperms of male mammals are produced in the sperm duct (**False**)
3. Magnetic force can pass through all material to attract other materials to it (**false**)
4. The removal of unwanted substances in our bodies is known as excretion (**True**)
5. Burning tobacco produces carbon dioxide which is a poisonous as (**false**)
6. Cross pollination is the only type of pollination found in plants. (**false**)
7. Animals differ from plants because they have cell wall. (**false**)
8. Materials that allow electricity to pass through them are called insulators. (**false**)
9. Mechanical energy is the type of energy which is not produced by movement (**false**)
10. One of the symptoms of syphilis is abstinence (**false**)

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SECTION A.

Question one (10 marks)

Write **true** for the correct statement and **false** for the wrong statement in the following.

1. The sun is the largest star in the universe. **(True)**
2. Heating is the process by which liquid changes to solid. **(false)**
3. Cocaine is a chemical drug used for curative purpose. **(True)**
4. Water is not necessary for life. **(False)**
5. A bicycle pump is used to pump air out of the tube. **(false)**
6. Farmers spray chemicals to kill and protect against pests. **(True)**
7. People use magnet to find direction. **(True)**
8. The temperature at which water can boil is 100°C. **(True)**
9. Pollination is the transfer of pollen grains from the anther to the stigma. **(True)**
10. Weather is the condition of the atmosphere of a certain area during certain periods. **(True)**

Question Two (10 marks)

Fill in the blank spaces with the correct words

1. Fertilization in mammals take place in the **oviduct/fallopian tube.**
2. **Ovary** is an organ that produces ovum.
3. Three examples of STDs are **HIV/AIDS, Syphilis** and **Gonorrhea.**
4. Groups of stars recognized by patterns that are formed in the night sky are known as **constellation.**
5. **Loam soil** is suitable for growing cereal.

6. Base (alkali) is a chemical compound that reacts with acids to form water and salt.
7. All materials that allow electricity to pass through them are called conductors.
8. Tweezers are used to remove thorns in the foot and some hair in the nose.

Question Three (5marks)

Circle the correct answer.

1. The organ of balance is found in the _____
 - a. **Inner ear**
 - b. Middle ear
 - c. Outer ear
 - d. Upper ear
2. Medicines inform of syrups and injections which have been given at health centre are known as _____
 - a. **curative**
 - b. preventive
 - c. diagnostic
 - d. anesthetic
3. For the earth to revolve around the sun it takes _____
 - a. **One year**
 - b. Two years
 - c. Three years
 - d. Four years
4. Light enters a camera through the _____
 - a. Torch
 - b. **Lens**
 - c. Box
 - d. Film
5. Male sperms are produced in _____
 - a. Penis
 - b. **Testes**
 - c. Scrotum

d. Ovary

Question four (10marks)

Match the following in column A with the corresponding information in column B in the answer column.

Column A	Answer column	Column B
Domestic animals	Goat, sheep, cattle	Parasite
Increase or decrease	Gear	Grape fruit
Group of stars which are seen in a specific area.	Constellation	Energy
The body of the host	Parasite	Sulphuric acid
One of the organic acid	Grape fruit	Constellation
Electricity	Energy	Railway gap
Strongest acid used in car batteries	Sulphuric acid	Goat, sheep, cattle

SECTION B.

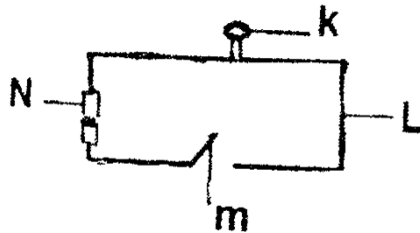
Question one.

- Human beings have four types teeth, mention them.
 - ✓ **Canine**
 - ✓ **Molar**
 - ✓ **Incisor**
 - ✓ **Premolar**
- Outline two characteristics of identical twins.
 - ✓ **They resemble each other exactly**
 - ✓ **They are either or both of the same sex**
 - ✓ **They behave in the same manner**
- State three examples of aquatic animals.
 - ✓ **Fish**
 - ✓ **Snake**
 - ✓ **Crocodile**
 - ✓ **Hippopotamus**
- Give three ways of HIV/AIDS transmission.
 - ✓ **Through sexual contact**
 - ✓ **Through blood transfusion**
 - ✓ **Sharing needle and syringe**
 - ✓ **Mother to child during birth**

Question two.

- Outline three plants found in the universe.
 - ✓ **Jupiter**
 - ✓ **Mercury**
 - ✓ **Earth**
 - ✓ **Mars**
- Give two ways in which sound can be stored.
 - ✓ **By using flash disk**

- ✓ **By using tape**
- ✓ **By using compact disk (CD)**
- 3. Mention three examples of reptiles
 - ✓ **Snake**
 - ✓ **Lizard**
 - ✓ **Chameleon**
 - ✓ **Tortoise**
 - ✓ **Crocodile**
- 4. State two ways of disposing rubbish
 - ✓ **By using rubbish pit**
 - ✓ **By using dust bin**
- 5. a) Name the parts of the electric circuit below.



K = **Bulb**
 M = **Switch**
 L = **wire**
 N = **Battery**

- b) Apart from light, which other form of energy is produced by part K when M is closed.
- ✓ **Heat energy**

Question three

Define the following terms.

1. Pollination
 - ✓ **Pollination is the transfer of pollen grains from the anther to the stigma of a flower.**
2. Conductors
 - ✓ **These are materials which conduct electricity**
3. Drug abuse
 - ✓ **Drug abuse is the misuse of drugs**
4. Meteorology
 - ✓ **Meteorology is the study of weather**
5. Chlorophyll
 - ✓ **Chlorophyll is a green coloring matter in plants that trap energy from the sun.**
6. Mixture
 - ✓ **Is the combination of more than one substance.**
7. Transpiration
 - ✓ **Is the loss of water from the leaves of a plant.**
 - ✓ **Or transpiration is the process by which water loss into atmosphere**
8. Environment
 - ✓ **Is the surrounding of living things.**
9. Echo
 - ✓ **Echo is a reflected sound**

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REPUBLIC OF SOUTH SUDAN
PRIMARY LEAVING EXAMINATION

TIME: 2HOURS

PLE SCIENCE 2018

SECTION A.

Question one (20marks)

Define the following;

1. **Food Chain:** Is the relationship which links animals and plants together to show interdependency in their feeding habits.
2. **Environment:** Is the surrounding in which we live.
3. **Menstruation:** Is the periodic monthly outflow of blood from the uterus through the vagina.
4. **Weather:** Is the condition of the atmosphere of a certain area during a certain period.
5. **Photosynthesis:** Is the process by which green plants manufacture their own food.
6. **Insulators:** Are materials that do not allow electricity/heat to pass through them.
7. **Pollination:** Is the transfer of pollen grains from anther to the stigma of a flower.
8. **Cornea:** Is a transparent covering for the colored part of the eye.
9. **Fertilization:** Is the fusion of male and female gametes to form zygote.
10. **Constellation:** Are groups of stars which are seen in a specific area of the sky at night.

Question two (10marks)

Write the word **true** against the correct statement and the word **false** against the wrong statement in the given brackets.

1. The volume of air increases when heated. **(True)**
2. Copper wires are good conductors of electricity. **(True)**
3. Cocaine is a chemical drug used for treatment purpose. **(False)**
4. Farmers spray chemicals to kill and protect crops against pests. **(True)**
5. In science, weight is defined as the amount of substance in an object. **(True)**
6. An electric circuit is a complete path through which electricity can flow. **(True)**
7. The air we breath out contains water vapor. **(True)**
8. A wind vane is an instrument used to measure the direction from which the wind is blowing. **(True)**
9. The amount of water vapor in the air is called humidity. **(True)**

Question three (10 marks)

Fill in the blank spaces with suitable words or group of words.

1. In a battery **chemical** energy is converted into **light** and **heat energy**.
2. A gas that forms the greatest percentage of air in the atmosphere is **nitrogen**.
3. Male sperms are produced in the **testes/testicles**.
4. The main way of controlling the spread of malaria is by **sleeping under mosquito net**.
5. All the materials that does not allow electricity to pass through them are called **insulators of electricity**.
6. Animals which attach themselves to the body of a host are called **parasites**.
7. The special paper used to test for the presence of alkalis is called **litmus paper**.
8. **Insects** and **birds** are examples of animals responsible for cross-pollination.

SECTION B (10MARKS)

Question One (10marks)

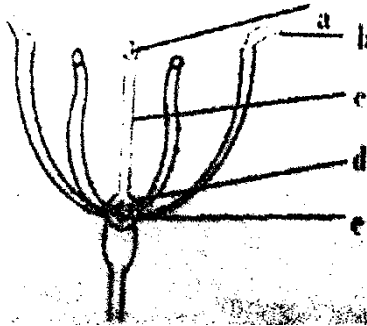
Draw a circle around the letter of the correct answer from the alternatives a, b, c and d given below.

1. Which of the following is not necessary for photosynthesis?
a. carbon dioxide
b. water
c. sunlight
d. Oxygen
2. In which set of conditions given below will a seed germinate?
a. light, heat, moisture
b. oxygen, warmth, moisture
c. soil, heat
d. water, carbon dioxide, light
3. Which of the following groups consists of only diseases that are immunisable?
a. polio, measles, tetanus
b. measles, malaria, diphtheria
c. dysentery, HIV, poliomyelitis
d. Bilharzia, measles, cholera
4. Which one of the following excretory organs does not remove waste?
a. lungs
b. Rectum
c. Kidney
d. Skin
5. Which is the main function of liquid part of blood?
a. Transport food nutrients
b. Stops bleeding
c. Acts as soldiers
d. Transport oxygen
6. In the solar system, which planet is the brightest and the hottest?
a. Mercury
b. Mars

- c. **Venus**
 - d. Jupiter
7. For the earth to move around the sun, it takes _____
- a. **One Year**
 - b. Two years
 - c. Half year
 - d. Four years
8. Which one of the following is a way of extracting salt from sea water?
- a. Transpiration
 - b. Weathering
 - c. Recreation
 - d. **Evaporation**
9. Which one of the following materials is not magnetic?
- a. **copper**
 - b. iron
 - c. steal
 - d. Nickel
10. Which one of the following weather instruments has its scale written in millitres?
- a. **Rain gauge**
 - b. Wind Vane
 - c. Wind sock
 - d. Liquid thermometer

Question Two (20marks)

The diagram below is of the flower, study it answer the questions that follows



- a) Name the parts labelled with letters a, b, c, d and e.
 - a. **Stigma**
 - b. **Anther**
 - c. **Style**
 - d. **Ovary**
 - e. **Ovule**
- b) Give the function of the parts marked a and e
 - a. **Receives pollen grains**
 - b. **It develops into a seed**
- c) Name three states in which matter exists.
 - ✓ **Solid eg chalk, table, spoon**
 - ✓ **Liquid eg water, milk, paraffin**
 - ✓ **Gas eg oxygen, nitrogen, carbon dioxide**

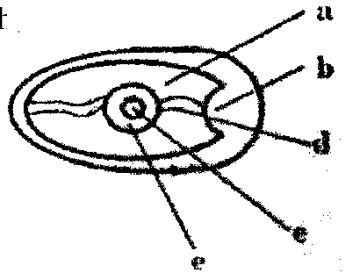
SECTION C (30MARKS)

Question one (10marks)

Answer the following questions in the space provided.

- a) Mention three ways HIV/AIDS transmission
- ✓ **Through blood transfusion**
 - ✓ **Through sexual contact**
 - ✓ **Through sharing needles and syringes**
- b) Mention two ways of making magnet.
- ✓ **By rubbing**
 - ✓ **By using electric current**

- c) The diagram below shows a cross-section of an ovule. Use it to answer the questions that follow.



- d) Name the parts labelled a, b, c, d and e.

- a. Albumen**
- b. Air space**
- c. Embryo**
- d. Chord**
- e. Egg York**

Question two (10marks)

Write the correct numbers of column A in the answer column to match their answer in column B.

No	Column A	Answer column	Column B
1	Part of the eye	Cow	280 days
2	Humidity	Inner ear	Organs of balance in the ear
3	Herbivores	Part of the eye	Retina
4	Human being	Allow light to enter the eye through the lens	Pupil
5	Allow light to enter the eye through the lens	Herbivores	Animals that feed on plants
6	Inner ear	Burning tobacco	Carbon dioxide
7	Planets	Human being	276 days
8	Burning tobacco	Tuberculosis	Bacteria
9	Tuberculosis	Planets	Mars
10	Cows	Humidity	Weather

Question three (10marks)

Answer the following questions

1. Name any three planets you know.
 - ✓ **Jupiter**
 - ✓ **Earth**
 - ✓ **Mars**
2. Name two characteristics of identical twins
 - ✓ **They usually resemble each other**
 - ✓ **They think and behave in the same way**
3. Mention two ways of making magnet.
 - ✓ **By rubbing**
 - ✓ **By using electric current**
4. Give three causes of water pollution
 - ✓ **Urinating in water**
 - ✓ **Defecating in water**
 - ✓ **Digging latrine near the water sources**

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REPUBLIC OF SOUTH SUDAN
PRIMARY LEAVING EXAMINATION

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PLE SCIENCE 2019

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SECTION A (40MARKS).

Question One (10marks)

Define the following terms

1. **Curative drug:** These are medicines in the form of syrups, tablets or injections which cure diseases.
2. **A magnet:** A magnet is a piece of metal that has the ability to attract other magnetic substances.
3. **Conductors:** These are materials that allow electricity to pass through them.
4. **Constellation:** These are groups of stars which can be seen in a specific area of the sky at night.
5. **Sanitation:** is the keeping of our environment clean.
6. **Pastoralism:** Is the keeping of livestock such as cows, goats and sheep.
7. **Chlorophyll:** Is the green coloring matter in plants which traps energy from the sun.
8. **Reproduction:** Is the process by which living things produce their young ones similar to themselves.
9. **Friction:** Is a force which opposes motion.
10. **Electric circuit:** Is a complete path through which electricity can flow.

Question Two (10marks)

Write the word **true** against the correct statement and **false** against the wrong statement.

1. A chemical used for purifying water is known as sodium chloride. **(false)**
2. One of the other characteristics of air is that it has definite shape. **(false)**
3. Syphilis is a common disease caused by spiral shaped bacteria called troponema palladium. **(true)**
4. Another name for the placenta is ovary. **(false)**
5. A chemical used for killing insects and crops pests are herbicides. **(false)**
6. Water is the most essential liquid for life. **(true)**
7. Acid extracted from lemons and other wild fruits are called organic acids. **(true)**
8. The cog wheel of a gear has teeth. **(true)**

9. Navigation satellite are used for military purpose. **(false)**
10. Oxygen is the only gas that support burning. **(true)**

Question three (10marks)

Fil in the blank spaces with the correct answers.

1. Energy is the ability to do **work.**
2. Litmus paper turns **red** when there is the presence of acid and turns **blue** when there is presence of alkaline/base.
3. Water in gaseous form is known as **water vapor.**
4. One of the only ways for controlling the spread of HIV/AIDs among the teenage is by **abstinence from sex.**
5. Evaporation is a method of extracting salt from **sea** water.
6. Tapeworms and ticks are examples of **parasites.**
7. In our eyes an upside down image is formed at a part called **Retina.**
8. You can separate a mixture of maize and bean by **selection method.**

SECTION B (30MARKS)

Question One (10marks)

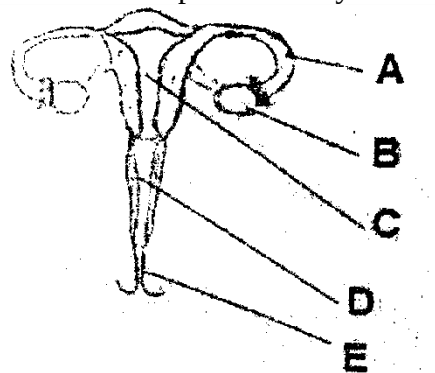
Draw a circle around the letter of the correct alternative a, b, c, and d given below.

1. Which part of the flowering plant is a reproductive part?
 - a. Stem
 - b. Flower**
 - c. Roots
 - d. Leaves
2. The forth (4th) planet in the solar system is the _____
 - a. Mars**
 - b. Jupiter
 - c. Earth
 - d. Venus
3. A substance in alcohol which affects the body is _____
 - a. Methanol
 - b. Ethanol**
 - c. All the above
 - d. None of the above
4. Which of the following drugs is not obtained from plants?
 - a. Cocaine
 - b. Mandrax
 - c. Intoxicating inhalants**
 - d. Heroines
5. The direction of wind is measured with an instrument called _____
 - a. Wind Vane**
 - b. Anemometer
 - c. Wind sock
 - d. None of the above

6. You can control HIV/AIDs spread by practicing the following activities except _____
- creating awareness
 - Abstinence from sex
 - Being faithful to partners
 - Sharing sharp objects with infected persons.**
7. The three smallest bones in our body are found in the _____
- Ear**
 - Eyes
 - Legs
 - Chest
8. Natural satellites that travel through the space and circle the earth on its journey around the sun is called _____
- Comets
 - Stars
 - Moon**
 - Meteors
9. Animals that live in water are known as _____
- Vertebrates
 - Invertebrates
 - Aquatic animals**
 - Reptiles
10. The percentage of water in the human body is about _____
- 75%
 - 55%
 - 67%
 - 65%**

Question three (20marks)

Below is a diagram of a female reproductive system. use it to answer the questions that follow.
(10marks)



- Name the parts labelled with the letters
 - Oviduct/fallopian tube**
 - Vagina**
 - Cervix**
- What is the function of the parts labelled
 - Ovary: is where the eggs (ova) are produced**
 - Womb/uterus: Is where baby stays for nine months**

- c) What name is given to special cord that joins the mother and the baby in the womb?
umbilical cord
- d) Maturity in humans take place from the age of **11 years** and **16 years.**
- e) Give any one reason why reproduction is important to both plants and animals?
✓ **To increase the number of both plants and animals**
- f) Mention one characteristic of identical twins.
✓ **They usually resemble each other**
✓ **They always either both of the same sex**
✓ **They think and behave in the same manner in many ways.**
- g) Below is an experiment that primary eight (P.8) pupils did with the help of their teacher using a bicycle pump. Use the experiment to answer the questions that follow.
1. The teacher requested two pupils to stand up and be apart in conducting the experiment.
 2. He told one of the pupils to hold the bicycle pump and pull the piston of the pump outward.
 3. He ordered the other pupil to hold the nozzle of the pump firmly with his hand as watched or observed by other pupils.
 4. Now he told the first pupil to push the piston inside the cylinder mean while the nozzle is still closed by the other pupil.

Questions

1. When the piston was pulled up, what do you think was left inside the cylinder?
✓ **The cylinder left full of air**
2. When the piston was pulled inside the cylinder as the nozzle was still closed, does it go easily?
✓ **No**
3. If Yes or No, support your answer.
✓ **Because the air inside is compressed to occupy a smaller volume.**
4. What does the experiment show?
✓ **The experiment shows that air can be compressed to fill a smaller volume.**
5. Mention one characteristic of air;
✓ **Air has definite volume**
✓ **Air has no definite shape or size**

Answer the questions in the spaces provided (5marks)

1. Define the term food chain.
✓ **Is a relationship which links plants and animals together to show interdependency in their feeding habits.**
2. State two ways on how plants depend on animals.
✓ **Plants depend on animals for carbon dioxide**
✓ **Plants depend on animals for manure**
3. Mention two similarities between plants and animals.

- ✓ Both of them are living things
- ✓ Both of them depend on each other

SECTION C (30MARKS)

Question one (10marks)

1. What name is given to an organ in the body that pumps blood to all parts of the body?
 - ✓ **The heart**
2. Mention any two components of blood vessels.
 - ✓ **Arteries**
 - ✓ **Capillaries**
 - ✓ **Veins**
3. Outline any two ways on how gonorrhea can be passed from one person to another.
 - ✓ **Through sexual contacts**
 - ✓ **Through blood transfusion**
 - ✓ **Through sharing needles and syringes**
4. In the auditory canal of the ears, there are sweat glands, hair and gland that produces ear wax. What is their main function to our ears?
 - ✓ **They protect the ear drum from dirt and small insects that may enter the ear.**
5. Mention two importance of animal dung.
 - ✓ **It can dry and be used as fuel for cooking**
 - ✓ **It can be used to produce bio-gas**
 - ✓ **It makes good manure which increases soil fertility**

Question two (10marks)

Match the words in column A with the words in column B in the answer column.

Column A	Answer column	Column B
Retina	Cocaine	Gives feeling of relation for a short time
Insects and birds	Carbon dioxide	Burning tobacco
Evaporation	Pollution	Harmful change caused to the environment
Cocaine	Retina	Images are formed in our eyes
Oxygen	Insects and birds	Agents of pollination
Carbon dioxide	Magnet	Attracts other magnetic materials
Pollution	Sirius	Shows ancient Egyptian that was time for the Nile to flood.
645 days	645 days	Elephants gestation period
Magnet	Evaporation	Methods of extraction of salt from sea water
Sirius	Oxygen	Support burning

Question three (10marks)

Answer the following questions in the space provided

1. Mention two stages in which matter can exist;
 - ✓ **Solid, eg table, chalk, spoon, book**
 - ✓ **Gas eg oxygen, nitrogen, carbon dioxide**
 - ✓ **Liquid eg milk, water, paraffin**
2. An object contains a mass of 150g. if it occupies a volume of 30cm^3 , calculate its density.

Solution

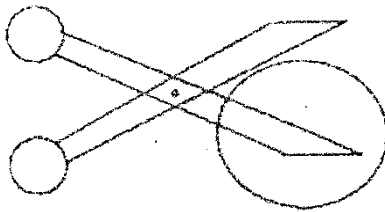
Mass = 150g

Volume = 30cm^3

Density = ?

Density =

3. Mr. Peter is an engineer who is specialized in building house. What example or kind of inclined plane would be used when he wants to climb up the building?
 - ✓ **He would use a ladder**
4. To which class of lever does the machine below belong?



- ✓ **It belongs to the first class lever**
5. Outline the two importance of conserving wildlife.
 - ✓ **Scientist use them for study purpose**
 - ✓ **They contribute to the beauty and wonder of life**
 - ✓ **They attract tourists**
 6. Describe semi-arid region.
 - ✓ **These are regions that have little, unreliable rainfall with very high temperature.**
 - ✓ **The average rainfall of these area is less than 600ml because of inadequate pasture for its animal in these areas**
 - ✓ **As a result, pastoralists are semi nomadic, moving from place to place according to the seasons.**

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SECTION A (40MARKS).

Question one (10marks)

Write the word **(true)** against the correct statement and **(false)** against the wrong statement.

1. Water is life and so important for both plants and animals. **(true)**
2. Sources of water refer to places where we get water from. **(true)**
3. Drinking water should be made safe for animals. **(true)**
4. Factories use various machines in the production of goods. **(true)**
5. Agriculture means the growing of crops and rearing of animals. **(true)**
6. Electricity used today is produced using firewood. **(false)**
7. Swimming may be done as leisure activity. **(true)**
8. Evaporation involves heating salty water in an evaporating dish. **(true)**
9. Irrigation water passes through a plastic pipe. **(true)**
10. Fish rearing, they are rich in protein and a very good source of food. **(true)**

Question two (10marks)

1. Define water?
✓ **Is the colourless liquid**
2. The male rabbit is called?
✓ **Buck**
3. The female rabbit is called?
✓ **Doe**
4. What is air?
✓ **Air is the mixture of gases**
5. Mention two characteristics of air.
✓ **It has no definite shape and size**
✓ **It has definite volume**
6. Define the following terms
 - a. iris: **It is the coloured part of the eye**
 - b. Pupil: **It is the part of the eye that allow light to pass through the lens.**

c. Retina: **Is the inner lining inside the part of the eye.**

7. What is acid?

✓ **Acids are substances which have a sour taste.**

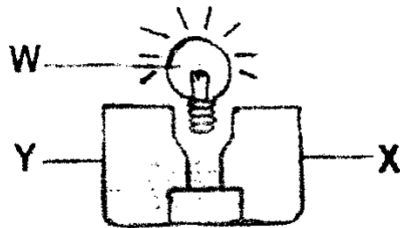
Question three (10marks)

Fill in the blank spaces with the suitable answers.

1. Magnets have always **existed** in the world.
2. Magnet is a piece of metal which can **attract each other**
3. **Magnets** are used in different ways by different professionals.
4. work is the **applied** of force and distance move in the **object**.
5. Burning of fuels produces substance which pollutes the air **carbon dioxide**, water pollution.
6. Water pollution animals and **people** need safe **water** for a healthy **life**.
7. Trees and forests are very useful to us as they attract **rain** and also give shade.

Question four (10marks)

a. Name the parts of a simple electric circuit drawn below.

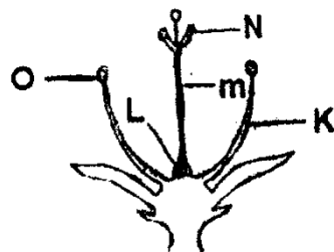


W. Bulb
X. Electric wire
Y. Dry cell/battery

b. Give two agents of pollination.

- ✓ **Insects**
- ✓ **Wind**

c. The diagram below is the structure of a flower label the parts marked by letters.



K. Filament
L. Ovary
M. Style
N. Stigma
O. Anther

SECTION B (40MARKS)

Answer all the questions.

1. Light enters the camera through the _____
2. Which of the following materials is magnetic
3. Electricity is used in many ways in our daily activities for example _____
4. Which of the following is the water borne disease
5. Which of the following drugs cause liver disease?

6. One of the following diseases cannot be prevented by vaccination
7. The alcohol is beer, wine, spirit is called
8. Which one of the following diseases is caused by amoeba?
9. Which of the following diseases can be spread by flies from contaminated human faeces?
10. Which of the following diseases is associated with smoking?
11. The average weather condition of a place is called?
12. Which part of the ear contains three smallest bones in human body?
13. The acid produced by stomach in human body is called
14. The machine that uses electricity to keep food much cooler is.
15. The percentage of water in human body is.
16. The coffee husk is.

B. Write out two differences between plants and animals.

Animals	Plants
Animals eat plants and other animals	Plants manufacture their own food through the process of photosynthesis
The cell of animals have no cell wall	The cell of plants have cell wall

Question two (20marks)

Answer all the questions

1. Write down three examples of sexually transmitted diseases.
 - ✓ **Gonorrhea**
 - ✓ **Syphilis**
 - ✓ **HIV/AIDs**
2. Name the bacteria that causes syphilis
 - ✓ **Traponema pallacium**
3. Write HIV in full
 - ✓ **Human Immune Deficiency virus**
4. Write down three ways how HIV/AIDs is transmitted from infected person to a healthy person.
 - ✓ **Through blood transfusion**
 - ✓ **Through sharing needles and syringes**
 - ✓ **Through breast feeding**
5. Give three examples of dangerous and abused drugs in the society.
 - ✓ **Cocaine**
 - ✓ **Heroin**
 - ✓ **Mandrax**
6. State two effects of heroin.
 - ✓ **Brain damage due to respiratory difficulties**
 - ✓ **Breathing problems**
7. Write down two economic implications of drug abuse.

- ✓ Leads to loss of jobs because of poor performance
 - ✓ Leads to waste of money and time
8. State any three sources of water.
- ✓ Rivers
 - ✓ Lakes
 - ✓ wells
9. Name two agricultural uses of water.
- ✓ For irrigation
 - ✓ Spraying with chemicals

SECTION C (30MARKS)

Question One.

Fill in the blank spaces with suitable answers.

1. The process by which green plants manufacture their own food is called **photosynthesis.**
2. Animals that eat meat of other animals are known as **Carnivores.**
3. **Birds and insects** are examples of animals responsible for cross pollination.
4. **Meteorologist** is a person who studies weather.
5. The condition of the air in a particular place for a short time is called **weather.**
6. The mixture of gases is called **air.**
7. **Pitch** is the degree of highness or lowness of sound as heard by a listener.
8. The two ways of making a magnet are by **rubbing and using electric current.**
9. **Insulators** are materials which do not allow electricity to pass through them.

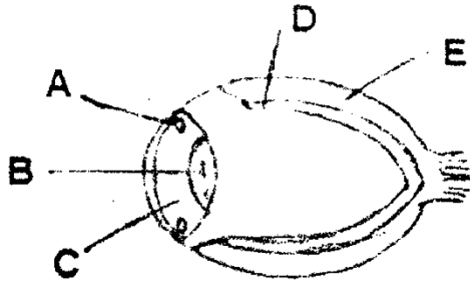
Question two (10marks)

Match the information in column A with the one in column B. write each of the information in column B in the answer column.

Answer column	Column A	Column B
Fertilization	The male cells (sperm) unite with female eggs (ova)	Air
Embryo	Is the part that develops into chick	Hatching
Air space	Is where gases exchange during development of an embryo	The shell
Air	During the development of the embryo	Fertilization
Re-cycling	Treating materials used to be reused	Magnet
The shell	Is the hard cover of the egg	The York
York	Yellow in colour and is the source of fats for the embryo	Air space
Iris	The coloured part of the eye	Recycling
Magnet	Used for picking up razor blades	The embryo
Hatching	The time for the chick to come out the shell	Iris

Question three (10 marks)

A. Name the parts of the eye labelled with letters A to F.



- A. Iris
- B. Lens
- C. Pupil
- D. Retina
- E. Sclera

B. Discuss the importance of the following

1. Nitrogen

- ✓ **Control the rate of burning**
- ✓ **For making nitrogenous fertilizers**

2. Oxygen

- ✓ **Help in seed germination**
- ✓ **Help in breathing**

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SECTION A (40MARKS).

Question One (10marks)

Fill in the blank spaces with the correct or suitable word.

1. **Cocaine** is a drug obtained from the leaves of the cocoa plant.
2. The process by which green plants manufacture their own food is known as **photosynthesis**.
3. **Constellation** are groups of stars which are seen in a specific area of the sky at night.
4. The scientific name given to a substance or material which cannot be broken such as glass and plastic is **Non-degradable**.
5. What name is given to the specific paper which is used to test the presence of alkalis?
Litmus paper.
6. All materials which do not allow electric current to pass through them are called **insulators**.
7. In a battery, chemical energy is converted into **electric and light**.
8. **Evaporation** is a method of extracting salt from sea water.

Question two (10marks)

Put a tick (✓) in front of the correct statements and (X) in front of the wrong statements.

- A. Electric circuit is a complete path through which electricity can flow. (✓)
- B. A wind Vane is an instrument used for measuring the amount of water vapour in the atmosphere. (X)
- C. Parasites are animals which attach themselves to the body of other animals to get food by sucking nutrients from the host's body. (✓)
- D. One of the characteristics of air is that, it has definite shape and size. (X)
- E. Another name for oviduct is placenta. (X)
- F. Friction is the process by which food particles are broken down into smaller particles. (X)
- G. Simple machines are tools used to increase the speed of work. (✓)
- H. Syphilis is a common disease caused by spiral shaped bacteria germ called traponema pallacium. (✓)
- I. Acids which are extracted from lemons and other wild fruits are called organic acids. (X)
- J. Farmers spray chemicals to kill and protect crops against pests. (✓)

Question three (10marks)

Draw a circle around the letter of the correct alternative a, b, c, and d given below.

1. Which one of the following diseases cannot be prevented by vaccination?
 - a. Polio
 - b. Measles
 - c. Tetanus
 - d. Dysentery**
2. Which of the below is a way of extracting salt from the sea.
 - a. Transpiration
 - b. Weathering method
 - c. Evaporation method**
 - d. Recreational method
3. Which of the following shows the gestation period of human beings?
 - a. 151 days
 - b. 288 days
 - c. 267 days**
 - d. Both b and c are correct
4. The process by which green plants manufacture their own food is known as;
 - a. Germination
 - b. Pollination
 - c. Photosynthesis**
 - d. Chlorophyll
5. The day-to-day condition of the atmosphere of a certain place for a short period of time is referred to as _____
 - a. Weather**
 - b. Climate
 - c. Meteorology
 - d. Pollutants
6. One can prevent the spread of HIV/AIDs by practicing the following activities except _____
 - a. By creating awareness
 - b. Abstinence from sexual activities
 - c. By being faithful to your partner
 - d. Through sharing sharp instruments with infected person.**
7. Which one of the following drugs is not obtained from plants?
 - a. Cocaine
 - b. Mandrax
 - c. Heroin
 - d. Introcating inhalants**
8. What is the percentage of oxygen in air?
 - a. 78%
 - b. 1%
 - c. 0.3%
 - d. 21%**
9. Which of the following instruments is not used to measure aspect of wind?
 - a. Wind Vane
 - b. Wind Sock

c. Hygrometer

d. Anemometer

10. Animals that live in water are called _____

- a. Vertebrates
- b. Invertebrates
- c. Reptiles

d. Aquatic animals

Question four (10marks)

Match the words in column A with their corresponding statements in column B and write the number of the answer in the answer column.

Column A	Answer column	Column B
Citric acid	Chlorophyll	Green colouring materials in plants
Magnet	Sirius	Show to ancient Egyptian that it was time for the Nile to be flooded
Re-cycling	HIV/AIDs	Sexual transmitted disease
Retina	Fertilization	Union between male and female
Meteorology	Re-cycling	Treating already used materials to be reused
Chlorophyll	Citric acid	Lemons and other wild fruits obtain
Fertilization	Meteorology	The process of studying weather aspect
Sirius	Retina	It is where images are formed
HIV/AIDs	645 days	Elephants gestation period
645 days	Magnet	Used in factories for separating magnetic objects from non-magnetic ones

SECTION B (60MARKS)

Question one (10marks)

State the meaning of the following words or group of words.

a. Constellation

✓ **Are groups of stars which are seen in a specific area of the sky at night**

b. Transparent objects

✓ **Are objects/materials which can allow light to pass through them**

c. Electricity

✓ **Is a form of energy which provide us with heat and light**

d. Germs

✓ **Are small living organisms which cause diseases.**

e. Cross pollination

✓ **Is the transfer of pollination grains from the anther to the stigma of another flower but of the same kind.**

f. Magnet

✓ **Is the piece of metal which attract other metals**

g. Light

✓ **Is the form of energy which enable us to see things or objects**

h. Luminous object

✓ **Are objects which produce their own light**

i. Machines

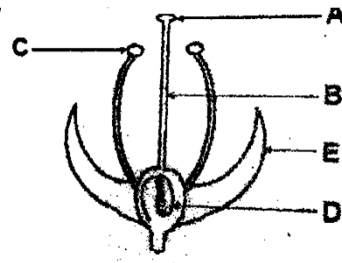
✓ **Is a simple device used to do work in quick manner**

j. Menopause

✓ **Is a stage in women where there is no more menstruation**

Question two (10marks)

Study the diagram below



Questions that follows.

a. Name the parts marked

A. Stigma

B. Style

C. Anther

D. Ovules

E. Sepal

b. Give the functions of the parts marked

A. Receives pollen grains from the anther

B. It holds the stigma upright

C. Produces pollen grains

D. Develop/produce seeds for the flower

E. To protect the ovary

c. What name is given to the above diagram

It is the diagram of a flower

Question three (30marks)

1. (a) Apart from tobacco, alcohol and marungi, give any two examples of drug abuse you know.

✓ **Cocaine, mandrax and heroin**

(b) Mention any two social effects of drug abuse in the society.

✓ **It leads to quarreling and fighting**

✓ **It also leads to neglect of social responsibility**

✓ **Use of abusive words or language**

2. Mention any two factors necessary for the process of photosynthesis.

✓ **Chlorophyll, carbon dioxide**

3. What is the importance of oxygen? Give two suggestions
 - ✓ **It supports burning**
 - ✓ **Oxygen is necessary for rusting to take place**
 - ✓ **It is used by animals during respiration**
4. a) What do you understand by the word reproduction in mammals?
 - ✓ **It is the process by which all living things give both to young ones.**
 b) Give one reason why reproduction is important to both plants and animals.
 - ✓ **It helps to increase the population/number of living things**
5. a) Write down two problems facing wild life in South Sudan.
 - ✓ **Poaching, diseases, burning of bushes**
 b) What are some of the benefits of wild life conservation in a country like South Sudan?
 - ✓ **To attract tourists**
 - ✓ **Generate income for the country**
 - ✓ **Beautiful the nation or country at large**
 - ✓ **Create social interaction among countries**
6. a) What name is given to acid that is found in the stomach?
 - ✓ **Hydrochloric acid**
 b) Name the special paper used to test the presence of acids or alkalis.
 - ✓ **Litmus paper**
 c) What is likely to happen when an acid solution is mixed with a base solution?
 - ✓ **The acid loses its sour taste and its ability to turn litmus paper red.**
7. Suggest the importance of using machines. Give three answers
 - ✓ **Machines increase the spread of work**
 - ✓ **Machines improve the quality of work**
 - ✓ **Machines lead to work efficiency**
 - ✓ **Machines save time**
8. Give two examples of the following
 - a. Heat conductors: **metal, iron**
 - b. Heat insulators: **plastic, clothes, rubber**
9. a) What do you understand by the word sound?
 - ✓ **Is the form of energy which enables us to hear**
 c) Write down two devices used for storing sound.
 - ✓ **Microphone, amplifier, doppler, mobile wireless**
10. a) Briefly differentiate between weather and climate.

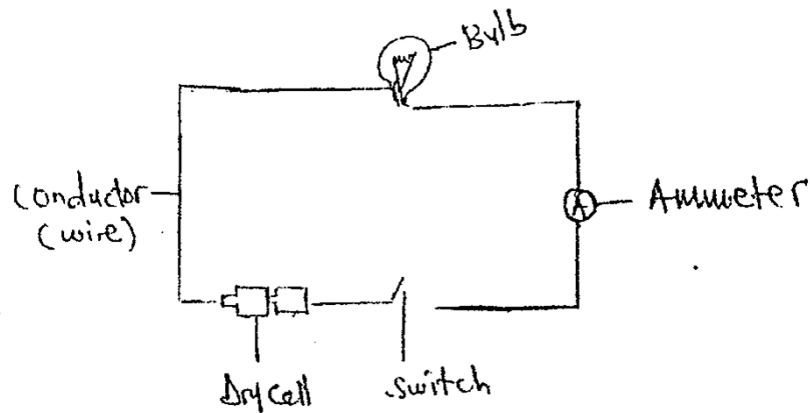
Weather	Climate
Is the day to day condition of the atmosphere	Is the average weather condition of a place recorded over a long period of time.

- b) Name any one element of weather you know
 - ✓ **rain**
 - ✓ **sunshine**

Question four (10marks)

In the space provided below, draw the diagram showing a complete electric circuit and on it name the following parts respectively

- A. conductor**
- B. dry cell**
- C. switch**
- D. ammeter**
- E. bulb**



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SECTION A (20MARKS).

Question One

Define the following terms

1. **weather:** Is the day to day condition of the atmosphere in an area during a certain period of time.
2. **Dams:** Is surface water collected into small streams and is emptied into rivers or lakes.
3. **Vaccines:** Are chemicals given to the body to resist to certain types of diseases.
4. **Light:** Is the form of energy which enable us to see.
5. **Stigma:** Are the parts of the female plant sex organ.
6. **Pollution:** Is anything that causes a harmful change in the environment.
7. **Uterus:** This is the muscular bag where a baby stays for nine months.
8. **Conductors:** Are materials that allow electricity to pass through them.
9. **Gears:** Are simple machines consisting of a series of wheels.
10. **Pollination:** Is the transfer of pollen grains from the anther to the stigma.

Question two

Write the word **true** against the correct statement and the word **false** against the wrong statement in the bracket.

1. The air has no definite shape or size. **true**
2. Cocaine is a drug obtained from the leaves of the tobacco. **false**
3. An electric circuit is a complete path through which electricity can flow. **true**
4. Oxygen we breath in is about 21% of the total air. **true**
5. In science, force is the change in the distance of a moving object. **true**
6. The male birds sits on the eggs to provide the required temperature for the developing embryo. **false**
7. The sun is a star **true**
8. Neptune is bigger than the earth **true**
9. Light is very fast at speeds of almost 300,000 kilometers per second. **true**
10. Herbicides are chemicals that are used to kill insects such as flies. **False**

Question three (10marks)

Fill in the blank spaces with the suitable words or group of words.

1. Female reproductive systems consists of two **ovaries**.
2. On a bicycle, a wheel that makes work easier is called **chain/gears**.
3. **Filtration** is a process by which we use to separate water from the particles.
4. Plants which anchor themselves on stems of stronger plants do it by means of **tendrils**.
5. Plants gives out **oxygen** during the process of photosynthesis and **carbon dioxide** taken in by plants.
6. Matter exists in three states namely **solid, liquid** and **gas**.

SECTION B (30MARKS)

Question one.

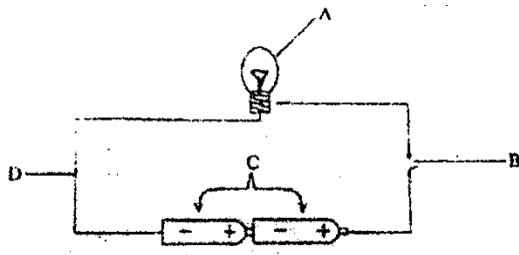
Draw a circle around the letter of the correct answer from the given alternatives a, b, c and d.

1. Maize and rice are examples of food rich in energy.
 - a. Protein
 - b. Starch
 - c. Carbohydrates**
 - d. Fats
2. Which of the following best describes evaporation?
 - a. When liquid changes into solid
 - b. When solid changes into liquid
 - c. When solid changes into gas
 - d. When liquid changes into gas**
3. Which one of the following groups consist of only diseases that are immunisable?
 - a. Polio, Measles and tetanus**
 - b. HIV, Dysentery and poliomyelitis
 - c. Measles, malaria and diphtheria
 - d. Bilharzia, measles and cholera
4. Which of the following is a way of extracting salt from the sea water?
 - a. Weathering
 - b. Evaporation**
 - c. Recreation
 - d. Transpiration
5. Which of the following is not a function of the leaf?
 - a. Transport**
 - b. Breathing
 - c. Photosynthesis
 - d. Food storage
6. The best explanation for addiction is _____
 - a. Harmful
 - b. Unpleasant
 - c. depressing
 - d. habit forming**
7. The union of the male and female cells of a flower in the ovary is known as;
 - a. Fertilization**

- b. ovulation
 - c. Germination
 - d. Pollination
8. What happens when a bulb is overloaded?
- a. It will light brightly
 - b. It is dim
 - c. It will burn out**
 - d. No changes is likely to be observed
9. Flowers pollinated by insects have the following characteristics. Which of the following is incorrect?
- a. They are sticky and fleshy
 - b. They have brightly coloured petals and has sweet nectar
 - c. They have hooks and barbs to hold on to the insects.
 - d. They have a green petal and nectar**
10. Which of the following chemicals is used to purify water?
- a. Sodium chloride
 - b. Chlorine**
 - c. Soda ash
 - d. tar

Question two

Study the diagram below and answer the following questions



1. Name the parts labelled with letters a, b, c, d and e
 - a. Bulb**
 - b. Switch**
 - c. batteries**
 - d. Wire**
 - e. Simple circuit**
2. Give the functions of the parts marked by letters b and d.
 - b. Opening and closing**
 - d. Allows current to flow through**
3. Name three non-metal
 - a. Plastic**
 - b. Wood**
 - c. Glass**

SECTION C (30MARKS)

Question one (10 marks)

Answer the following questions in the spaces provided

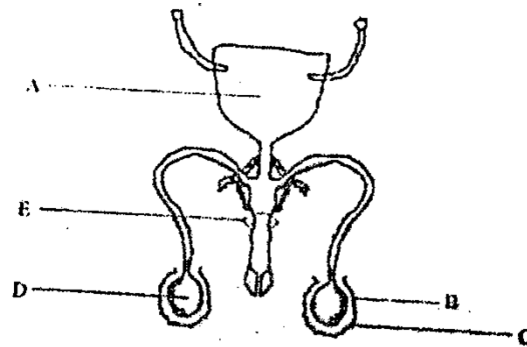
a. Mention three ways HIV/AIDs transmission.

- ✓ **Blood transfusion**
- ✓ **Sexual fluids**
- ✓ **Needles and syringes**

b. Mention two ways of making a magnet.

- ✓ **Using electric current**
- ✓ **By rubbing**

c. The diagram below shows the male reproductive system in humans. Use it to answer the questions that follow.



Name the parts labelled a, b, c, d and e

- a. bladder**
- b. Epididymis**
- c. Scrotum**
- d. Testicles**
- e. Sphincter**

Question two (10 marks)

Write the correct numbers of column (A) in the answer column to match their answers in the column B.

S/NO	Column A	Answer column	Column B
1	Tuberculosis	2	Iris
2	The coloured part of the eye	1	Bacteria
3	Organs of balance	4	Made by rubbing
4	Static electricity	3	Inner
5	Grinding	10	Mars
6	Planet	5	Weather
7	Humidity	6	Carbon dioxide
8	Burning tobacco	7	Too much rainfall

9	Flooding	8	Absorption
10	Roots	9	Work

Question three (10marks)

Answer the following questions

1. Mention three causes of water pollution
 - ✓ **Factories**
 - ✓ **Patrols**
 - ✓ **Sewage water**
2. Mention two ways of preventing corona virus
 - ✓ **Wearing facemask**
 - ✓ **Immunization**
 - ✓ **Social distancing**
3. Name two characteristics of identical twins
 - ✓ **They are of the same sex**
 - ✓ **They are different**
4. Mention three changes to be observed in girls during adolescence time.
 - ✓ **Hair starts to grow in the private part**
 - ✓ **The breast starts to come out**
 - ✓ **Menstruation or there is extension in the hips**
 - ✓ **Their voices soften**

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SECTION A (20MARKS).

Question One (10marks)

Draw a circle around the letter of the correct answer from the alternatives a, b, c, and d given below.

1. Which of the following is not a good reason for taking drugs?
 - a. To prevent diseases
 - b. To cure diseases
 - c. To relax and make mind happy**
 - d. To reduce pain caused by injuries
2. Which part of the plant is not involved in photosynthesis?
 - a. Petals**
 - b. Leaves
 - c. stem
 - d. Sepals
3. The building blocks of living organisms are referred to as;
 - a. Cells**
 - b. Tissues
 - c. Organs
 - d. Organ system
4. Spreading of dry grass or leaves around plant is called;
 - a. Shading
 - b. Mulching**
 - c. Harvesting
 - d. Ploughing
5. The state of matter where particles are far apart is called;
 - a. Gas**
 - b. Liquid
 - c. Solid
 - d. Aqueous
6. Which of these best describes evaporation?
 - a. A solid changes into liquid
 - b. A solid changes into gas
 - c. A liquid changes into gas**

- d. A liquid changes into solid
- 7. Which of the following is not a property of metals?
 - a. Ductile
 - b. malleability
 - c. Brittle**
 - d. Shiny
- 8. The systematic arrangement of the interior of the earth is
 - a. Mantle, core and crust
 - b. Core, mantle and crust
 - c. Crust, core and mantle
 - d. Crust, mantle and core**
- 9. The bending of light rays when it passes from one medium into another is called
 - a. Refraction**
 - b. Reflection
 - c. Incident ray
 - d. Reflected ray
- 10. Which of the following is not an immunisable disease?
 - a. Diphtheria
 - b. Sleeping sickness**
 - c. Pertussis
 - d. Yellow fever

Question two (20marks)

Define the following terms

- 1. Ovulation
Is the process by which a mature egg moves to the oviduct for fertilization
- 2. Food preservation
It refers to the way of keeping food safe from contamination
- 3. Respiration
Is the breathing in and out of air through the lung
- 4. Electromagnetism
It refers to the process of making a magnet using electricity
- 5. Gravity
It refers to the force that pulls down objects
- 6. Drug abuse
It refers to the misuse of drugs
- 7. Atmosphere
It refers to the air around us
- 8. Energy
It refers to the ability to do work
- 9. Bio-degradable
These are substances that can be broken down into simple substances by living organism
- 10. Electric circuit
It refers to the complete path in which electric current flow.

Question Three (10marks)

Fill in the blank spaces with the suitable word or group of words.

1. The sperm and the ovum combine in a process called **fertilization** to form a **zygote**.
2. The air we breathe is rich in **oxygen** while the air exhale is rich in **carbon dioxide**.
3. The excess carbon dioxide in the atmosphere that causes global warming is introduced through **respiration** and **burning of fuel**.
4. An indicator that shows one colour in an acid solution and another different colour in a basic solution is called **litmus paper**.
5. The eye sends an impulse to the brain through **optic nerve**.
6. The instrument used to measure the amount of moisture in the air is a **hygrometer**.
7. The **pulmonary vein** carries oxygenated blood from the lungs to the heart.

SECTION B (30MARKS)

Question one (10marks)

Write the word **true** against the correct statement and the word **false** against the wrong statement in the bracket provided.

1. Human waste should be disposed in a rubbish pit. **false**
2. Environment sustainability helps to ensure that the needs of toady's population are not met endangering the ability of the future generation to meet their needs. **true**
3. Photosynthesis is shown by water + carbon dioxide = starch + water + oxygen **true**
4. Flooding as a result of climate change leads to psychological suffering and social conflicts. **true**
5. About 97% of water available on the earth is salty water. **true**
6. Air moves from an area of high pressure to an area of low pressure **true**
7. Sulphuric acid is used in the preservation of food **false**
8. Generators produce electromagnetic energy to produce electricity **true**
9. During photosynthesis, carbon dioxide is given out as a waste. **false**
10. The image formed at the retina is upright. **False**

Question two (20marks)

A teacher went to a class and explained to his pupils methods of disease control through hygiene and food preservation.

He said,

- Germs breed in dirty places, therefore, the pupils should practice personal hygiene and home sanitation.
- They should clean their bodies and environment
- They should practice good hygiene to avoid water-borne diseases and food poisoning.
- They should educate their community about the need for proper sanitation and food handling practices.

A. Use the above information to answer the questions below.

1. Give one practice that is regarded as;
 - a. Personal hygiene

They should clean their bodies

b. Home hygiene

They should clean their environment

2. List two benefits of practicing good food hygiene.

- **It avoids water borne diseases**
- **It avoids food poisoning**

B. List three methods of conducting health education in your community.

- **Through organizing health workshops**
- **Through health seminars**
- **Through self-awareness education**

C. Outline three methods of preserving food in your community.

- **Salting**
- **Sun drying**
- **Smoking**
- **Use of wood ash**

D. Answer the questions in the spaces provided

1. What is friction?

- **Friction is the force that opposes a motion**

2. List three methods of reducing friction

- **By lubrication/oiling**
- **By use of rollers**
- **By use of ball bearing**

3. State two advantages of friction

- **Friction makes movement possible**
- **Friction produces heat**
- **Friction opposes motion**

4. Give two properties of;

A. Metals

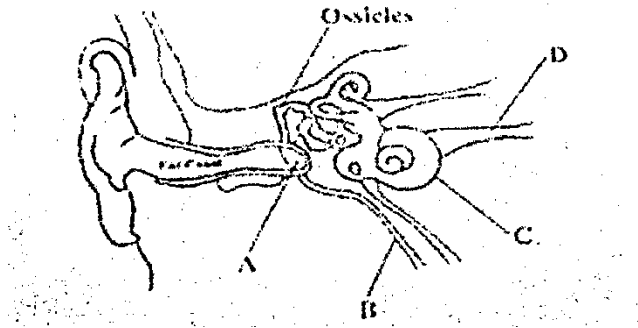
- **They are ductile**
- **They are malleable**
- **They are shiny**
- **They are good conductors**

B. Non-metals

- **They are brittle**
- **They are dull**
- **They are bad/poor conductors except graphite**

SECTION C (30MARKS)

A. Below is the structure of the human ear, use it to answer the questions that follow.



1. Label the part marked

- A. Ear drum**
- B. Eustachian tube**
- C. Cochlea**
- D. Auditory nerve**

2. What is the function of the three small bones in the ear.

They transmit air vibration from the outer ear into the inner ear to be processed as sound

3. Why are animals having two ears?

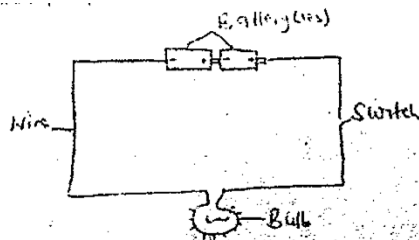
This is to provide a greater ability to know where the sound is coming from (allowing hearing from both sides)

B. List the components of the nervous system.

- **The brain**
- **The spinal cord**
- **The nerve cell**

Question two (10marks)

A. In the space provided below, arrange a series of circuit connection to two cells and a bulb



ii. Which type of energy makes electric bell ring

- **Electromagnetic energy**

B. Name the three states of matter

- **Solid**
- **Gas**
- **Liquid**

Calculate the density of a substance with a mass of 150g and a volume of 30cm³.

Density =

Question Three (10marks)

Write the correct number in column A in the answer column to match their answers in column B.

S/N	Column A	Answer Column	Column B
1	Herbivores	5	Use in manufacture of liquid soap
2	Goats	7	Gas given out by plants during photosynthesis
3	Humidity	3	Amount of water vapour in the air
4	Carnivores	8	Used as baking soda
5	Atmosphere	9	Animals that feed on plants
6	Sodium bicarbonate	4	Gas taken in by plants during photosynthesis
7	Oxygen	2	Domestic animals
8	Potassium hydroxide	1	Animals that feed on meat
9	Friction	10	Air around the earth
10	Carbon dioxide	6	The force that oppose motion

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SECTION A (20MARKS).

Question One

Draw a circle around the letter of the correct answer from the alternatives a, b, c, and d given below.

1. Which set of conditions given below will lead a seed to germinate?
 - a. Light, Heat, Moisture
 - b. Oxygen, warmth, Moisture**
 - c. Soil, heat, light
 - d. Water, carbon dioxide, light
2. One of the common water borne disease is _____
 - a. Typhoid**
 - b. Malaria
 - c. Tuberculosis
 - d. Elephantiasis
3. The process of photosynthesis in plant takes place in the
 - a. Leaves**
 - b. Roots
 - c. Stems
 - d. Spines
4. The process by which pollen grains are transferred from one flower to another of the same kind is called
 - a. Self-pollination
 - b. Cross pollination**
 - c. Wind pollination
 - d. Insect pollination
5. One of the symptoms of amoebic dysentery is _____
 - a. Skin rash
 - b. High fever
 - c. Blood in urine and stool**
 - d. stomach pains
6. Drug abuse can be defined as
 - a. Taking overstayed drugs

- b. Misuse of drugs**
 - c. Control of drugs
 - d. Keeping drugs in a safe place
7. Which of the following is a way extracting salt from sea water?
- a. weathering
 - b. Transpiration
 - c. Evaporation**
 - d. Respiration
8. Seeds and fruits that are dispersed by wind have the following characteristics except.
- a. They are small and light
 - b. They have silky thread
 - c. They have buoyancy structure
 - d. They have parachute hairs
9. In the word AIDs, the letter I stands for
- a. **Immune**
 - b. Immunity
 - c. Deficiency
 - d. Syndrome
10. Which of the following is not a way of spreading HIV and AIDS?
- a. Blood transfusion
 - b. Sexual contact
 - c. Eating with an infected person**
 - d. Mother to baby during birth

Question Two

Define the following terms

1. Insects
 - **These are chemicals used to control or kill insects.**
 - **These are chemicals formulated to kill, harm or repel insects.**
2. Planets
 - **Are celestial or heavenly bodies that revolve or move around the sun in their own orbits.**
 - **Are heavenly bodies that move around the sun in the orbit**
3. Energy
 - **is the ability to do work**
 - **is the ability to perform a task**
4. A lever
 - **Is a rigid body capable of rotating on a point on itself.**
 - **Is the rigid piece that transmit and modify force or motion.**
 - **Is a rigid bar that turns freely on a fixed point called fulcrum/pivot**
5. Reproduction
 - **Is the process by which organisms multiply in number and give rise to young ones.**
 - **Is the process by which living organisms give rise to their off springs.**
6. Photosynthesis
 - **Is the process by which green plant make their own food.**
 - **Is the process by which green plants manufacture their own food.**

Question Three (10marks)

1. Metals have high melting and boiling points.
2. Mercury is the smallest of all the planets.
3. Earth rotates on its axis from west to east.
4. Materials that allows heat to pass through are called good conductors while those ones which do not allow heat to pass through them are known as insulators/poor conductors.
5. Rays of light fall on the reflecting surface are referred to as incident rays while those which are reflected from a surface are referred to as reflected rays.
6. The leaves in plants trap sun light use it to make their own food through the process of photosynthesis.

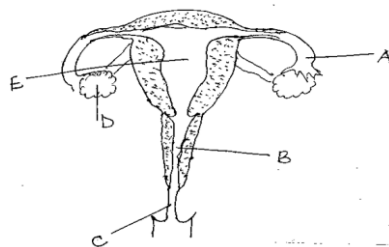
SECTION B

Write the word true against the correct statement and the word false against the wrong statement in the bracket provided.

1. The North and South poles of a magnet attract each other. true
2. Animals which depend on the other animals for food are called carnivores true
3. Parasites are animals which attach themselves to the body of another animals and obtain food by sucking nutrient from the host body. true
4. One of the treatment for Bilharzia can be through the use of metrifonate false
5. Cocaine is a drug obtained from the leaves of the coca plant. true
6. Water is considered as not an essential element of life. false
7. The percentage of water in the human body is 40%. false
8. AIDs is caused by a virus called HIV which destroys the body immune system. true
9. The earth is the second planet from the sun false
10. The volume of air increases when heated. True

Question Two

The figure below shows the human female reproductive system



1. Name the parts labelled with letters A, B, C, D and E.
A. Oviduct/fallopian tube
B. Vagina
C. Vulva

D. Ovary

E. Uterus/womb

2. Give the function of the parts marked A and D

A. It is where fertilization takes place

D. Produces female gametes

3. Write any three characteristics of identical

- **Have same genetic features**
- **They are of the same sex**
- **They resemble each other**
- **They are produced from the one egg (ovum)**

SECTION C (30MARKS)

Question One

Match the words in column A with the words from column B in the answer column

Column A	Answer column	Column B
Pollution	HIV transmission	Mother to baby
Evaporation	Pollution	Harmful change caused to the environment
Fertilization	Evaporation	Method of extraction of salt from sea water
HIV transmission	Fertilization	Fusion of male and female gametes
Insect	Insect	An agent of pollination
Heroin	Heroin	Constant drowsiness
Gestation	Gestation	The period of development of the fetus
Elephant	Elephant	645 days (2) and half months
Air space	Air space	Where gases are exchanged
Chlorophyll	Chlorophyll	Green pigment in plants

Question two

1.Outline any two symptoms of Gonorrhea in a new borne child.

- **The eye becomes red swollen**
- **Discharge of thick pus**
- **Painful urination**
- **Burning sensation**
- **Abdominal pain**

2. Mention any three methods to control drug abuse

- **Creating awareness on dangers of drugs**
- **Avoid bad peer groups**
- **Setting strict laws**
- **Learning how to cope with stress**

3. Mention any two secondary sex characteristics or change that takes place in girls.

- **Growth of pubic hair**
- **Enlargement of breasts**
- **Enlargement of hips**
- **Sweat glands become more active**

4. Outline the three states of matter with one example of each

State of matter	Example
Solid	Wood/stones
Liquid	Water, oil, blood
Gas	Oxygen, carbon dioxide, hydrogen, nitrogen

Question three

1. Mention any four traditional methods of preserving food.

- **By smoking**
- **By salting**
- **By sun drying**
- **By use of ash**
- **By use of honey**

1. Briefly explain about the premature birth and miscarriage in mother.

- **Is when a baby is born before the normal gestation period/normal pregnancy period while miscarriage is the sudden loss of pregnancy before the 20th week.**

1. Reactants are substances that react together in a chemical reaction. Mention two reactants that are involved in the process of respiration.

- **Food/glucose**
- **Oxygen**