



Provincial department of Education – Northern Province

Third Term Examination – 2021 (2022)

Grade 6

Science

Time: 2.00 Hours



Part – 1

Answer all questions

1.) Select the most suitable answer for the following questions.

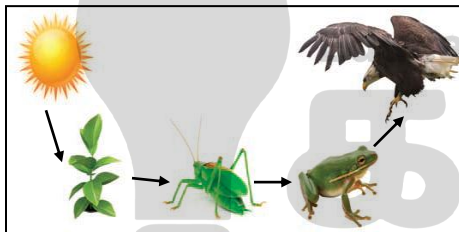
1. The process by which energy is produced in the cells is,

1. Respiration 2. Photosynthesis 3. Growth 4. Irritability

2. None of the characteristics of all organisms

1. Reproduction 2. Photosynthesis 3. Growth 4. Respiration

3. The correct statement regarding to the given food chain is,

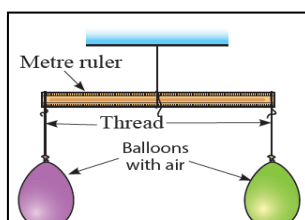


1. Here grasshopper is a heterotrophic.
2. It has 5 links
3. It has 4 links
4. Here 3rd level consumer is an omnivore

4. Which of the following is not considered as a plant movement?

1. Mimosa plant shows a sleeping movement after a touch
2. Sesbania leaves show sleeping movement in the evening.
3. Plant stem grows towards the sun light.
4. Movement occurs during respiration.

5. What is the nature of air is observed by the given experimental setup?



1. Mass
2. Volume
3. Density
4. Thrust

6. Which of the following physical state does not contain a fixed shape or a fixed volume?

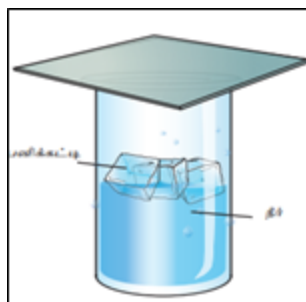
1. Solid 2. Ice 3. Liquid 4. Gas

7. The ability of a metal to be drawn into thin sheet without breaking by hammering or rolling.

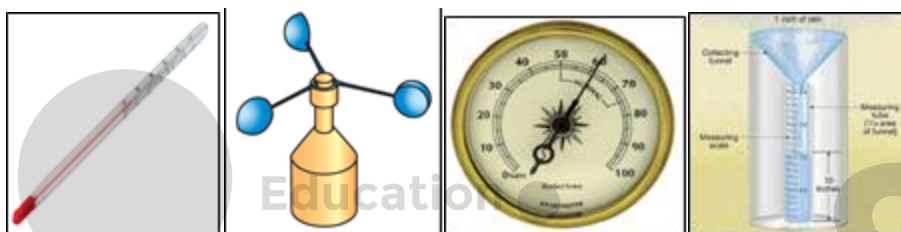
1. Hardness 2. Malleability 3. Ductility 4. Elasticity

8. The following experimental setup is used to identify the physical state of water in the atmosphere.

What is the observation as an evidence for the purpose of the above experiment?



1. Ice floats on water
2. Ice melts
3. Water droplets appear on the outer surface of glass.
4. Ice immerse after a while



9.

A

B

C

D

The correct order of the instruments which are used to measure the rainfall, humidity, velocity of air and temperature of weather changes

1. A, B, C, D 2. D, C, B, A 3. A, D, C, B 4. C, D, B, A

10. Biomasses used as energy sources. Which one of the following is not a biomass?

1. Hay 2. Firewood 3. Coal 4. Saw dust

(10×3=30 marks)

2.) Write 'True' or 'False' in front of the bracket.

1. The ability to do work is known as energy. (.....)
2. There are wind power plant located in Puttalam. (.....)
3. Optical fibres are used in modern communication. (.....)
4. Mobile phone battery is a primary cell. (.....)
5. The way of sound produced in tabela and violin are similar. (.....)

(5×2=10 marks)

Part – 2

Answer any of 5 questions including the first question.

1) Different types of electrical appliances are given below.



1. Identify the above electrical appliances.

A..... B..... C.....
D..... E..... F.....

(3 Marks)

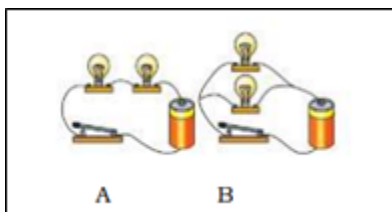
2. Write the uses of the appliances F,G

F..... G..... (2 Marks)

3. Draw the simple electrical circuit by using symbols from the above given electrical appliances.

(4 Marks)

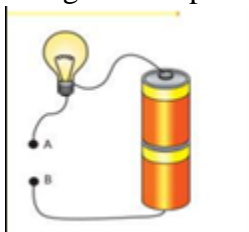
4.



Identify which of the bulbs light up brighter from the given set up?

..... (1 Mark)

5. The given setup is arranged to identify the conductors and insulators

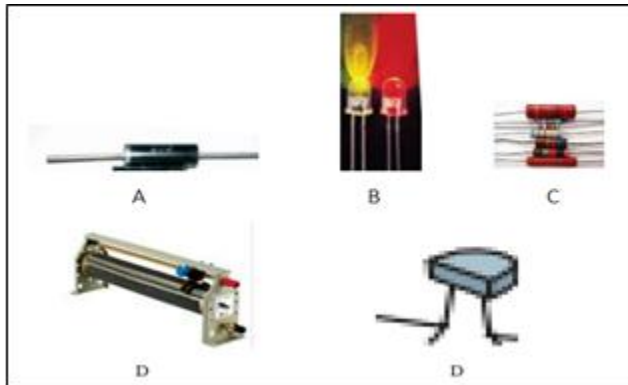


Write the observations when place the rod of a pencil and plastic between the terminals A and B

Rod of a pencil.....

Plastic..... (2 Marks)

6. There are some electronic appliances given below.



I) Which of the electronic appliance is used to let the current flow in one direction only?

.....(1 Mark)

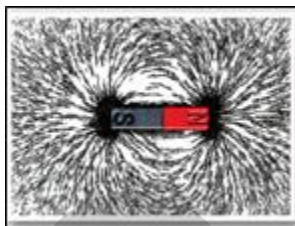
II) Name the appliance which emits light?

.....(1 Mark)

III) What is the usage of the appliance D?

..... (1 Mark)

7. The area where the magnetism is spread around the magnet is shown below.

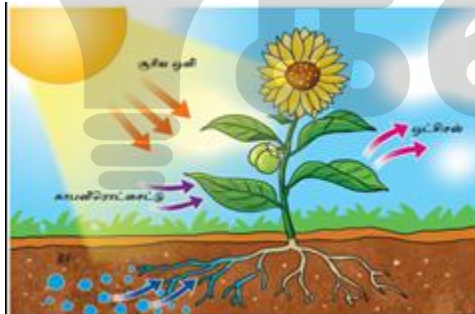


How does it call the area which the magnetism is spread around the magnet?

..... (1 Mark)

(Total -16 marks)

2) A) 1) The given figure shows the biological process taken place in plants.



I) Name the biological process mentioned?

.....(1 Mark)

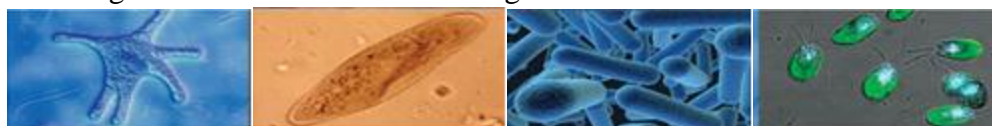
II) What are the factors needed for the above process?

.....
.....(4x1/2= 2 Mark)

2) Put a cross above a word given in bold in order to show the correct meaning of the statement given

“Based on nutrition, the green plants are **autotrophic/ heterotrophic**” (1 Mark)

3) The microorganisms which are in water is given below.



A

B

C

D

Identify the above micro-organisms?

A.....

B.....

C.....

D.....

(2 Marks)

4) Mention a method which is used to classify the organisms?

.....

(1 Mark)

B) The given apparatus is used to measure the volume of liquids.



1. Identify the given apparatus.

.....

(1 Mark)

2. Find the maximum volume which can be measured by this apparatus?

.....

(1 Mark)

3.70 ml water is in this apparatus. Mention it in the picture given.

(2 Mark)

(11 marks)

3) “Water is a valuable resource from the environment.”

1. Mention the 3 physical states of water.

.....

(1 ½ Marks)

2. How do you call the solid state of water?

.....

(1 Mark)

3. Classify the types of water based on availability?

.....

(1 ½ Marks)

4. What is the percentage of water that can be consumed?

.....

(1 Mark)

5. How does call the addition of waste materials to water till it becomes unsuitable for consumption?

.....

(1 Marks)

6. Write two importance of water for the existence of life

.....

(2 Marks)

7. Write an illness caused by the poisonous chemicals which are added to the water?

.....

(1 Mark)

8. Give the ascending order of the salinity of water in the following resources.

Lagoon, ocean, river

.....

(2 Marks)

(11 marks)

4) The given apparatus are operated by solar energy.



A

B

C

- Name the above apparatus.
A..... B..... C.....(3 Marks)
- Name the apparatus which generates heat?
..... (1 Mark)
- Name the apparatus which generates electricity?
..... (2 Marks)
- Write the energy conversion taken place in the apparatus B
.....(2 Marks)
- Write an alternate energy source which is suitable for generating electricity in Sri Lanka?
..... (2 Marks)
- Write a similarity between biomass and fossil fuel?
..... (1 Mark)

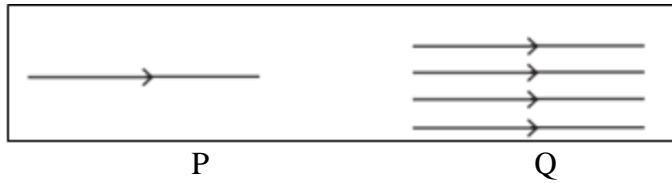
(11 marks)

5) 'The main source which gives us light is the sun'.

- How does it call the objects which can produce their own light?
..... (1 Mark)
- Fill the following table by putting (✓) in the suitable box based on the ability of the given objects to transmit light through them.

Object	Transparent	Translucent	Opaque
Cardboard			
Tissue Paper			
Glass			

(3 Marks)



3. Identify P and
P..... Q (2 Marks)

4. Name the apparatus which is used to lighten the interior parts of the body?
..... (1 Mark)

5. Write 2 uses of optical fibres?
..... (2 Marks)

6. How sound is produced?
..... (1 Mark)

7. Name the part which helps to direct the sound into the ear?
..... (1 Marks)

(11 marks)

- 6) A) The picture shows some permanent magnets which are used in laboratories.



A B C D E

1. Name A, B, C and D.
A..... B.....
C..... D..... (2 Marks)

2. Name the area where the attractive power of magnet is more?
..... (1 Mark)

- B) The given setup is used to identify the forces between the poles of a magnet



1. What is your observation when the magnets were placed as shown in the above figure
..... (1 Mark)
2. What is the reason for the above observation?
..... (1 Mark)

C)



1. What is the physical quantity can be measured by the above apparatus in laboratories?

.....(1 Mark)

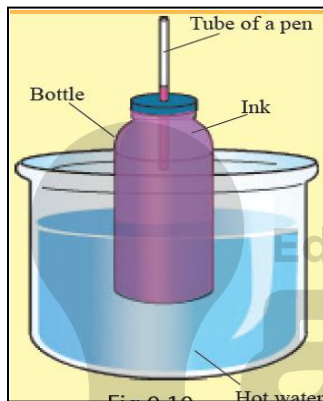
2. What is the standard international unit (SI unit) of measuring the above physical quantity?

..... (1 Mark)

3. Name a liquid used in this apparatus?

..... (1 Mark)

D). An experimental set up was arranged by Grade 6 students to study one of the effect of heat is given?



1) What is the purpose of this activity?

.....

..... (1 Mark)

2) What is the observation?

.....

..... (2 Mark)

(11 marks)