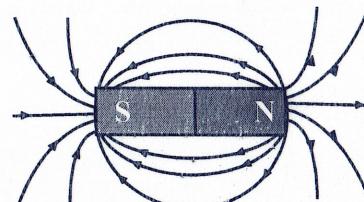
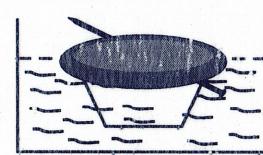
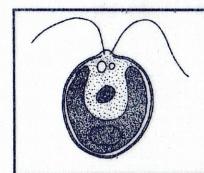


## Part I



12. A pair of materials, Which has brittleness and elasticity  
 1. Glass, Copper wire    2. Granite, Copper wire    3. Chalk, Glass    4. Granite, Elastic

13. Select incorrect sentence,  
 1. Leaves fixed to the stem is called leaf arrangement  
 2. There are favorable and unfavorable results occur from transpiration  
 3. "Akkapana" posses propagative roots  
 4. Every divided leaf blades are not a complex leaf

14. Select correct answer about a dry cell  
 1. Current flows from negative pole to positive poles  
 2. Potential is high in positive pole in relevant to negative pole  
 3. Potential is high in negative pole in relevant to positive pole  
 4. Potential is equal in both poles

15. What is the plant with an underground stem?  
 1. Potato, Leaks    2. Raddish, Potato    3. Peanut, Potato    4. Beetroot, Carrot

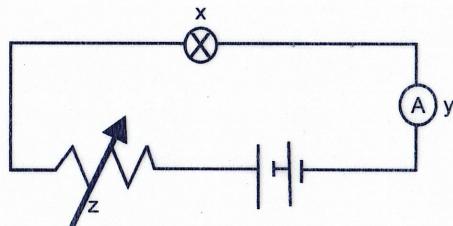
16. From below answers which contains natural sounds  
 1. Crying, Ringing school bell  
 2. Crying, Snoring  
 3. Bird singing , Vehicle sound  
 4. Sound of welding, Horn sound from a vehicle

17. Identify x,y and z  
 1. LED, Dry cell, Ammeter  
 2. Ammeter, Voltmeter Resistor  
 3. Voltmeter, Mili Ammeter, Diode  
 4. Bulb, Ammeter, variable Resistor

18. Materials which can be used to prevent rusting  
 1. Wood ash, Lime juice  
 2. Slaked Lime, Salt  
 3. Slaked lime, Wood ash  
 4. Salt, lime juice

19. The activity that should not be done in a rainy day with lighting  
 1. Use telephones with wire  
 2. Unplugging all electrical appliance circuits  
 3. Prevent from the use of metal equipment  
 4. Unplugged TV antenna

20. The best way that can be followed during drought disaster management  
 1. Fire the soil with the presence of Sun light  
 2. Encourage for Chena cultivation  
 3. Educate the importance of production of hydro power  
 4. Improve the method of collecting rain water



## Part II

- Write answers to first question and any other four questions.
- 16 marks given for first question and 11 marks for each question. First question is compulsory.

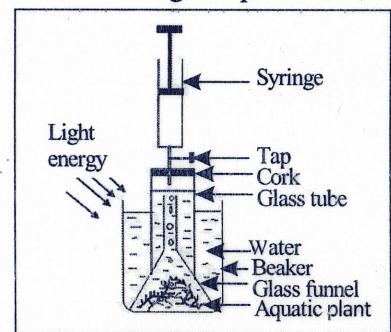
01. Below is a setup used to observe the byproduct produced from the main biological process taken place inside a plant.

A. i. What is the main biological process in plant shown in the above setup? (1mark)

ii. Mention a plant used for this practical (1mark)

iii. Write down two observations observed from this practical (2mark)

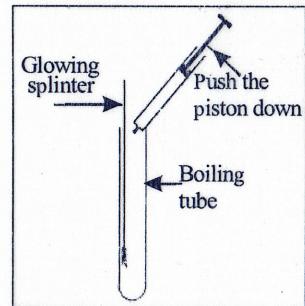
iv. Close the tap and take away the syringe of the above setup and below practical was done



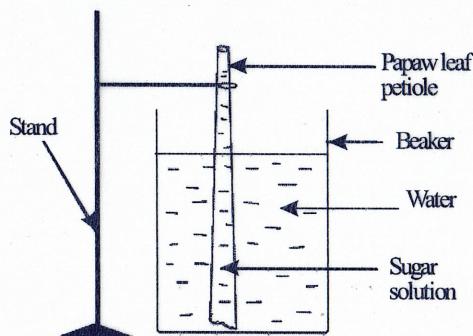
a. What is the observation? (1mark)

b. What is the reason for the observation? (1mark)

c. Write down 2 instance where identified byproduct can be used in day today life (2mark)



B. Transportation is a biological process taken place inside plants and following figure shows a setup to demonstrate it? (1mark)



i. What is the method of transportation demonstrated in the above setup? (1mark)

ii. Write down the observation observed by the above setup? (1mark)

iii. Write down another methods of transportation inside plants except from above method of transportation (1mark)

iv. According to the above setup write down an instance where this method of transportation taken place inside a plant (1mark)

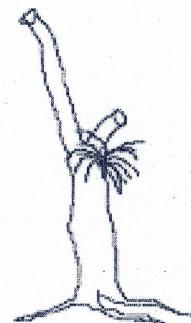
C. As shown in the below figure, this plants grow on another plant. This plant has special type of roots.

i. What is the special name for the plant category that grow on another plant (1mark)

ii. As shown in the figure, the above plant presents
 

- Special type of roots. What is it called? (1mark)
- What is the function of those special roots? (1mark)

iii. Write another type of roots except from above mentioned type that perform a special function (1mark)



02. Below is a hypothetical diagram drawn after studying about the life cycles of living organisms.

I. Mention two type of metamorphosis shown in the two life cycles A and B (2mark)

ii. Name X, Y and Z (3mark)

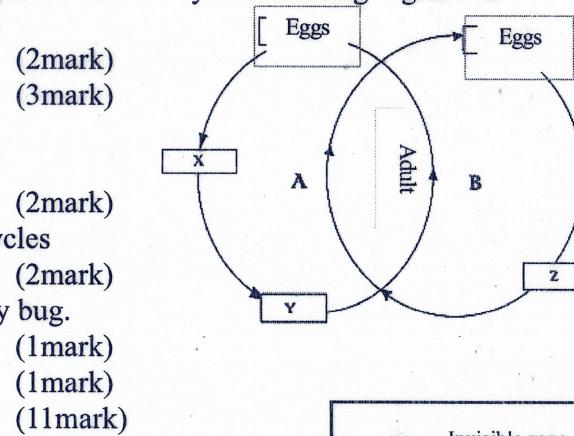
iii. Separate the living organisms, butterfly, mealy bug, mosquito, paddy bug into two life cycles A and B (2mark)

iv. Write two importance of studying about the life cycles (2mark)

v. Chemical pesticides are used to suppress the paddy bug. (11mark)

I. Write an advantage of the above method (1mark)

ii. Write a disadvantage of the above method (1mark)



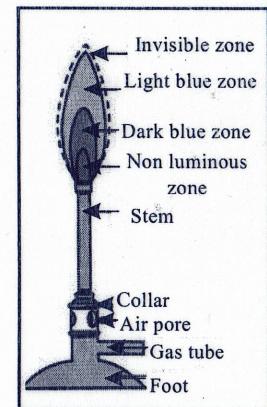
03. Below figure shows a Bunsen flame

A. I. What is the use of collar of the Bunsen burner? (2mark)

ii. Yellow Bunsen flame can be visible sudden after lighted up the Bunsen burner. Write the reason for it. (1mark)

iii. a) What is the zone where the complete combustion occurs? (1mark)

b) Write the idea about the temperature of this zone? (1mark)

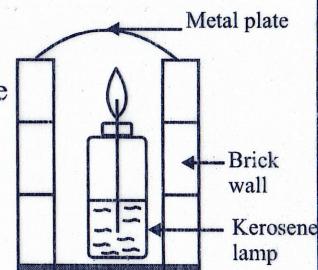


B. Below figure shows a setup made by a student to collect back soot

I. Initially the flame was lighted up and suddenly it was lighted off due to some water droplets of the wet metal plate drop on to the flame of the lamp. Explain the reason for it? (1mark)

ii. Write three factors affect for the combustion of combustible materials (3mark)

iii. Bunsen flame is unsuitable to collect soot. why? (2mark)



04. Skin is considered as the largest organ of the human body. Skin performs excretory function and it contributes for many other functions inside the body.

A. i. Write 2 another functions performed by the skin except from excretory function (2mark)

ii. Write down 2 types of vitamins essential for a healthy skin (2mark)

iii. Write down 2 skin disease infected by micro-organisms (2mark)

B. Common understanding about the skin of mammals can be gained by studying of the human skin.

I. Write down two specific features can be seen in the skin of mammals (2mark)

ii. Write down two differences can be seen in the skin of mammals and birds (2mark)

iii. What is the harm occurs when a living organism expose to more sunlight for a long period of time per day. (1mark)

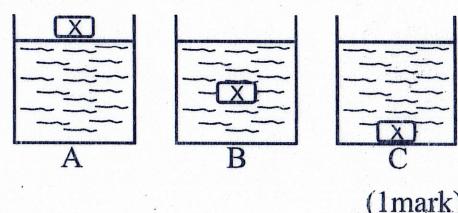
05. Below figure shows, an object called "X" is floating on equal volume of three salt solutions. These three salt solutions are made by dissolving different amounts of salts in same volume of water.

A. i. which container has high amount of dissolved salt? (1mark)

ii. Which container is similar to fresh water? (1mark)

iii. What is the reason for the above answer? (2mark)

iv. What is type of mixture of salt solution belongs to? (1mark)



B. The following features are shown by the object "X". Which is used for the above practical

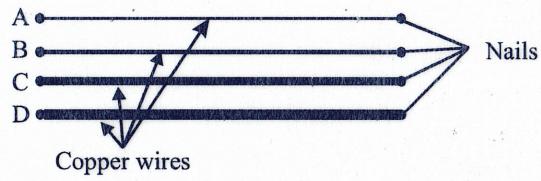
- Brittleness
- Heat conductor
- Electrical conductor

- What will be the material "X" (1mark)
- Write two states of material "x" exists in the environment (2mark)
- Draw a simple setup using symbols to test the electrical conductivity of object "X" (3mark)

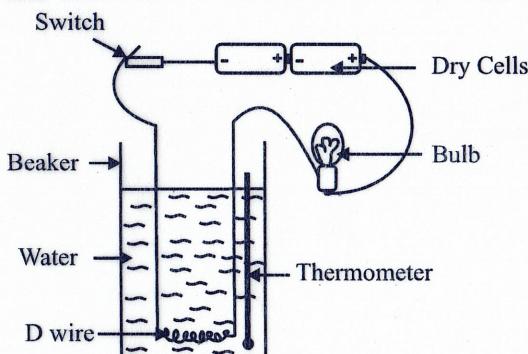
06. Below shows a setup which made up of Copper wires with equal lengths and different diameters to demonstrate the sound.

A. I. Vibrate A,B,C and D wires using equal force. Arrange the sharpness of the sound produced according to the ascending order (1mark)

- How the sharpness of sound production may change according to the changes in the diameter of the wires (1mark)
- No sound heard by the vibration of wire "A" when plucking by a small force. What will be the reason? (2mark)

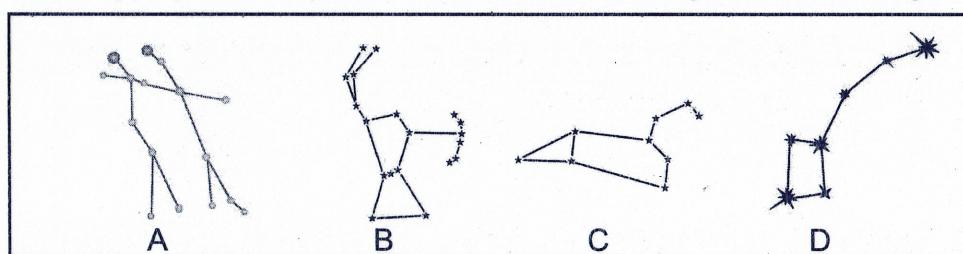


B. "D" Wire was taken and connected to the circuit as in the below figure.



- Write two observations observed in the setup when the switches of the circuit are closed (2mark)
- What is the effect of electric current caused for the above observations? (2mark)
- Write another two effects of electric current except from the above mentioned effect (2mark)
- Write the method of connection of the dry cells to the above circuit (1mark)

07. Ancient people who were watching stars in the night sky, imagined various star patterns by joining them. It is very easy way to identify the directions when observing the star in the night sky.



A. i. Name A,B,C and D constellations (4mark)

- Write the letter of the constellation which has brightest star in the night sky (1mark)
- What is the name of the relevant brightest star (1mark)

B. i. Write a major natural disaster occurs in central hills in Sri Lanka (1mark)

- What are the things that can be done before occurring a disaster? (2mark)
- Write two human activities affect for the occurrence of a drought (2mark)

## Grade 06 Science Answer

## Part I

01. 1	06. 4	11. 2	16. 2
02. 3	07. 3	12. 4	17. 4
03. 4	08. 2	13. 3	18. 3
04. 3	09. 1	14. 2	19. 1
05. 1	10. 3	15. 1	20. 4

## Part II

01. A. I. Photosynthesis (1mark) ii. *Vallisneria* or *Hydrilla* (1mark)  
 iii. Released air bubbles, drop down the water level, rising up the piston (1mark)  
 iv. a) When insert the glowing splinter, it will ignite and bursting into flame (1mark)  
 b) Presence of oxygen (1mark)  
 c) respiration of organisms, combustion of materials, cutting & soldering of metals (2mark)

B. I. Osmosis (1mark)  
 ii. Overflowing of water in the petiole of the papaw leaf, rising up the water level of the petiole of the papaw leaf (1mark)  
 iii. Diffusion, mass flow (1mark) iv. Absorb the water in the soil by root of the plant (1mark)

C. I. Epiphytes (1mark) ii. a) Aerial roots (1mark) b) Absorption (1mark)  
 iii. Respiratory roots, Climbing/ clasping roots (1mark) (1mark)

02. I. A. Complete metamorphosis (1mark) B. Incomplete metamorphosis (1mark)  
 ii. X - Larva (1mark) Y - Pupa (1mark) Z - Nymph (1mark)  
 iii. Complete metamorphosis - Butterfly, mosquito (1mark)  
 Incomplete metamorphosis - Mealy bug, paddy bug (1mark)  
 iv. past controlling , control of disease vectors, on serve biodiversity (2mark)  
 v. Advantages - high efficiency, able to destroy high amount of pests using low concentration of pesticide (1mark)  
 Disadvantages - Spend high cost of money, environmental pollution (1mark)

03. A. I. Control the entry of air or control the entry of oxygen amount (2mark)  
 ii. Reduction of oxygen, lack of oxygen (1mark)  
 iii. a) Invisible zone (1mark) b) Highest temperature (1mark)  
 B. I. Water is not a fuel, water is not a combustible matter (1mark)  
 ii. Fuel, combustible matter, Oxygen (3mark)  
 iii. There is no soot in gas cooker as a result of complete combustion (2mark) (Total- 11mark)

04. A. i. Protection, regulation of body temperature (2mark) ii. Vitamin A and E (2mark)  
 iii. Eczema and pityriasis (2mark)  
 B. i. Hairs, sweat glands and sebaceous gland (2mark) ii. Hairs and feathers, present glands and absent glands (2mark)  
 iii. Cause cancers, cause cataracts (1mark)

05. A. I. A (1mark) ii. C (1mark) iii. High minerals, dissolving some amount of salt (2mark)  
 iv. Homogenous mixture (1mark)  
 B. I. Carbon (1mark)  
 ii. Diamond and graphite (2mark)  
 iii. For a suitable diagram (3mark)

06. A. I. D,C,B,A (1mark) ii. Varying the frequency (1mark)  
 iii. Not belongs to the limits of hearing of humans (2mark)  
 B. I. Increase the temperature of water and lit the bulb (2mark) ii. Light effect and heat effect (2mark)  
 iii. Magnetic effect and chemical effect (2mark)  
 iv. Series connection (1mark) (11mark)

07. A. i. A - Gemini, B - Orion, C - Leo, D - Seven sages/ plough / ursa major (4mark)  
 ii. C (1mark) iii. Regulus in Leo (1mark)  
 B. i. Landslide (1mark)  
 ii. After awareness regarding landslides, go away from that places move to a safe place, Remove water collected at the upper parts, Remove landslide prone areas, Avoid cutting lands prone areas, Protect natural forests, Cultivate in terraces (2mark)  
 iii. Irregular/ unplanned constructions, Irregular/ unplanned water usage, Irregular/ unplanned land/ soil usage, Destruction of forest, Emit greenhouse gases (2mark) (11mark)