PROVINCIAL DEPARTMENT OF EDUCATION - NORTH WESTERN PROVINCE

THIRD TERM TEST 2018
SCIENCE

Grade 06 **Two hours**

Name / Index No. :

PART - I

- **Answer all the questions. Draw a line under the most suitable answer.**

01. An autotrophic organism is,

(1) Amoeba (2) Bacteria (3) Balsam (4) Fungi

02. The correct answer which include the properties of a liquid substance is,

(1) Having a specific volume and a definite shape.

(2) Having a specific volume and not having a definite shape.

(3) Not having a specific volume and having a definite shape.

(4) Not having a specific volume or a definite shape.

03. The water in a tank is called as,

(1) Marine water (2) Fresh water

(3) Brackish water (4) Brackish water mixed with marine water

04. A biomass among the following energy sources is,

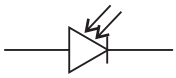
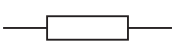
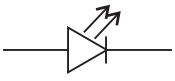
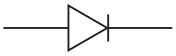
(1) Coconut shells (2) LP Gas (3) Coal (4) Diesel

05. What is the type of power plant that does not exist in Sri Lanka?

(1) Coal power plants (2) Hydro power plants

(3) Wind power plants (4) Nuclear power plants

06. The symbol used to display the LED is,

(1)  (2)  (3)  (4) 

07. The unnecessary thing to create a simple cell is,

(1) Copper plate (2) Zinc plate

(3) Sulphuric acid (4) Caron plate

08. The ability of a metal to be drawn into thin sheet without breaking by hammering is,

(1) Brittleness (2) Hardness

(3) Malleability (4) Ductility

09. The substance which used to identify carbon dioxide is,

(1) Colorless lime water (2) Copper sulphate

(3) Coconut oil (4) Salt water

10. Select the correct order of transparent, translucent and opaque objects.

(1) Tissue paper, Thin glass, Black paper

(2) Thin glass, Tissue paper, Black paper

(3) Black paper, Tissue paper, Thin glass

(4) Black paper, Thin glass, Tissue paper

11. The substance does not belong to matter is,

(1) Glass (2) Water (3) Light (4) Air

12. An equipment which produces sound by vibrating strings is,

(1) Flute (2) Violin (3) Tabla (4) Harmonium

13. The prevailing weather condition in an area for a long time period is,

(1) Weather (2) Climate (3) Drought (4) Humidity

14. Instrument that does not contain magnet is,

(1) Speaker (2) Compass (3) Flute (4) Electric bell

15. Animals that consume both flesh and plant materials are,

(1) Omnivorous (2) Herbivorous

(3) Carnivorous (4) Insectivorous

16. A type of precipitation is,

(1) Water of a waterfall (2) Sea water

(3) Ice rain (4) Water in a well

17. The equipment used to observe the microbial organisms is,

(1) Thermometer (2) Compound microscope

(3) Telescope (4) Hand lens

18. The process of producing energy in the organisms is,

(1) Nutrition (2) Respiration (3) Photosynthesis (4) Growth

19. The amount of water that can be consumed is,

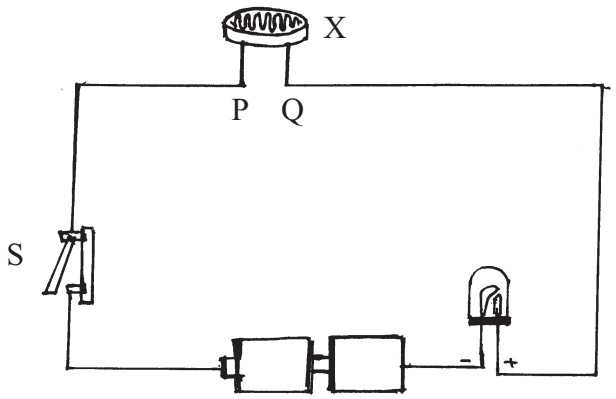
(1) 0.1% (2) 0.2% (3) 0.01% (4) 0.02%

20. An artificial light source is,

(1) Moon (2) Stars (3) Candle flame (4) Sun

- **The first question is compulsory. Answer three more questions additionally.**

01. The following image shows a setup for an electricity related activity made by a group of students.



(1) a) Name the device specified as "X". (01m.)

b) Draw its symbol. (01m.)

(2) When the switch turned on the LED flashed slightly. At that time, device "X" is exposed to a torch light.

a) What could be the observation of LED? (01m.)

b) What is the reason for that observation? (01m.)

(3) When the device "X" is closed with black paper,

a) What could be the observation? (01m.)

b) What is the reason for that observation? (01m.)

(4) What is the function of switch "S"? (01m.)

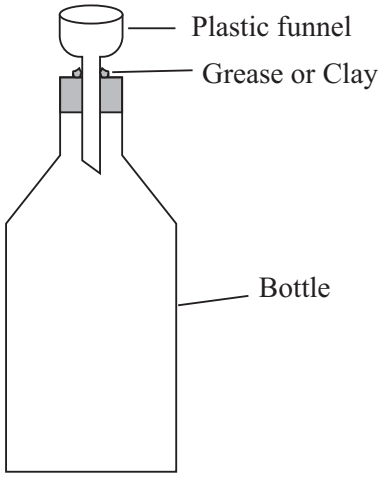
(5) Draw a relevant circuit diagram for the setup shown in the image. (04m.)

(6) Complete the following table according to the observations, if the following materials were connected to the circuit instead of device "X".

Materials	Observations	Reason (Conductor / Insulator)
Rubber belt	A	B .....
Carbon rod of a dry cell	C	D .....

(04m.)

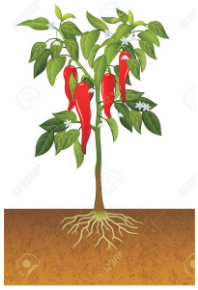
02. A (1) What could be inside the bottle? (01m.)

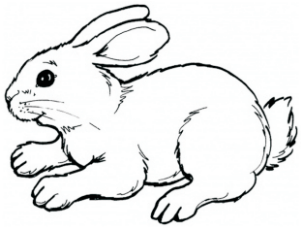


(2) When add more water to the funnel at once, the water does not enter into the bottle. What is the reason for that? (02m.)

(3) Suggest a way to insert the water into the bottle. (02m.)

B





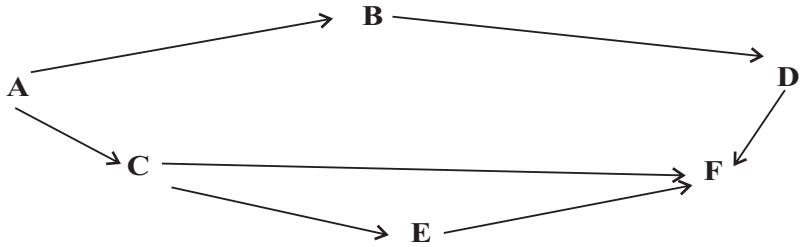
(1) Write the name of the common category which belongs to chilly plant and rabbit. (01m.)

(2) Write a common characteristic of chilly plant and rabbit. (01m.)

(3) What is the process of food production inside a plant? (01m.)

(4) What is the difference in between the growth of chilly plant and rabbit? (01m.)

03. The following is a chart which shows the nutritional links in between plants and animals. English letters have used to refer the plants and animals. Answer the questions according to the chart.



(1) What is the name that can be used to introduce the above chart? (01m.)

(2) What is the letter used to designate the manufacture? (01m.)

(3) Write the letters used to designate the herbivores. (02m.)

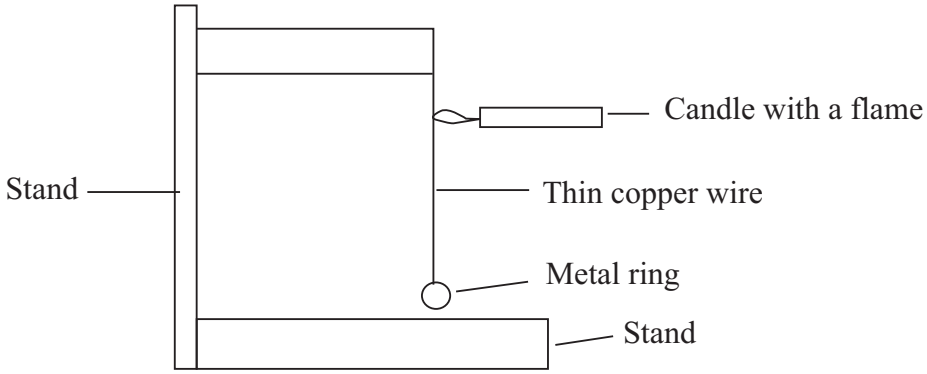
(4) How many carnivores are there? (01m.)

(5) A group of students was submitted the names of below organisms in order to complete the above nutritional links. (02m.)

(Paddy plant / Paddy fly / Rat / Cat / Hawk / Lizard)

Complete the links by using the names of organisms instead of the letters.

04. The following figure shows a setup created to monitor the effects of the heat.



A) When heated the copper wire of setup "P" with a flame of candle,

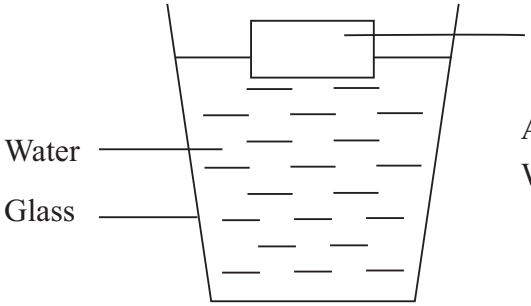
a) What is the observation that can be seen on the metal ring? (01m.)

b) Mention the reason for that observation. (02m.)

c) What is the difference that can be seen after few minutes when removed the candle flame? (01m.)

d) Mention the reason for that difference. (01m.)

B)



A student put an ice cube on a glass of Water and keeps it for a few minutes.

(1) What is the observation can be found on the outer surface of the glass? (01m.)

(2) The ice cube gradually becomes into water. Write the changes of state of that incident. (02m.)

(3) Give the reason for explaining the incident of ice cube turn into water. (02m.)

05. The climatic changes in Sri Lanka have been increased at present. A few droughts have been experienced in several districts and heavy rains have been occurred in some other areas.

(1) Name the equipments used to measure the rainfall, temperature, humidity, wind speed and direction. (02m.)

(2) What is meant by humidity? (01m.)

(3) Name the disaster situation which can be happened due to lack of rainfall and give one harmful effect of it. (02m.)

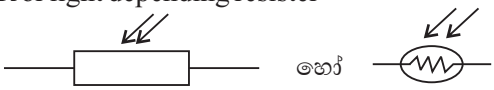
(4) Name the disaster situation which can be happened due to high rainfall and give one harmful effect of it. (02m.)

Grade 06 ANSWER PAPER - PART I SCIENCE

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

PART - II

01. A (1) a) LDR or light depending resister (01m.)

b)  (01m.)

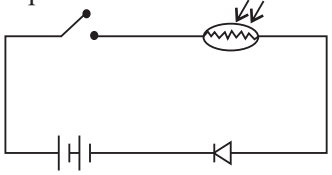
(2) a) Increase the light of LED (01m.)

b) When the light falls on the LDR the resistance of it reduces and increases the current flow. (01m.)

(3) a) Does not flash the LED. (01m.)

b) When the light does not falls on the LDR the resistance of it increases and decreases the current flow. (01m.)

(4) To stop or allow the current flow. (01m.)

(5)  (04m.)

(6) a. Does not flash the LED (01m.)
b. Electric insulator (01m.)
c. Flash the LED (01m.)
d. Electric conductor (01m.)

02. A (1) Air (01m.)

(2) Because of the air need a space. (02m.)

(3) Remove the Clay or Grease or fill water gradually. (02m.)

B (1) Organisms (01m.)

(2) Respiration, Reproduction, Nutrition etc. (01m.)

(3) Photosynthesis (01m.)

(4) There is not a limit of the growth of plant and has a limit of growth of rabbit. (01m.)

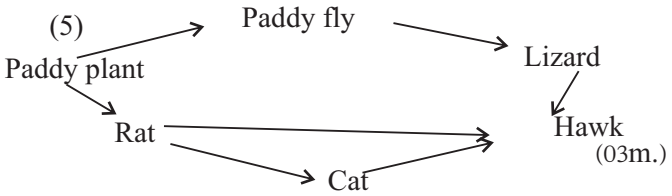
03. (1) Food web (01m.)

(2) A (01m.)

(3) B and C (02m.)

(4) 3 (01m.)

(5)



(03m.)

04. A a) Metal ring touch the stand (01m.)

b) Expansion of the copper wire (02m.)

c) Come back to the same position (01m.)

d) Contraction of copper wire (01m.)

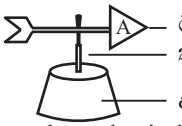
B (1) Can be seen water droplets (01m.)

(2) Solid ⟶ liquid (02m.)

(3) Liquidized by getting the heat from the water (02m.)

05. (1) Rain fall - Rain gauge / Temperature - Thermometer / Humidity - Hygrometer / Speed of wind - Anemometer / Direction of wind - Wind vane (02m.)

(2) The amount of water vapor in the atmosphere (05m.)



(02m.)

(3) Drought and suitable harm (02m.)

(4) Flood and suitable harm (02m.)