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மத்திய மாகாண சபையின் வலயக் கல்விக் காரியாலயம் - மாத்தளை
ZONAL EDUCATION OFFICE OF CENTRAL PROVINCIAL COUNCIL- MATALE

e-Learning Programme - 2020

Grade - 07 | Science | Assignment - 01

01 Plant diversity

1. When you having a field visit in your school garden, you found a grass plant and a mango plant. Fill the table by considering those two plants

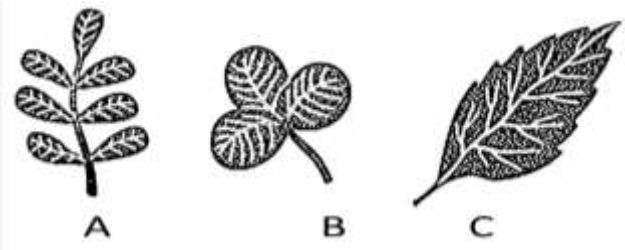
I.

	Grass plant	Mango
Branching of stem		
Leaf veination		
Number of seed cotyledons		
Root system		

II. State a similarity and a difference between the above plants when they germinate

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III.



Given leaves can be separated into two main groups. What are they?

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IV. Give examples for above leaf types

V. Name the root type and their special function in each of the following plants

a) Banyan tree ----------

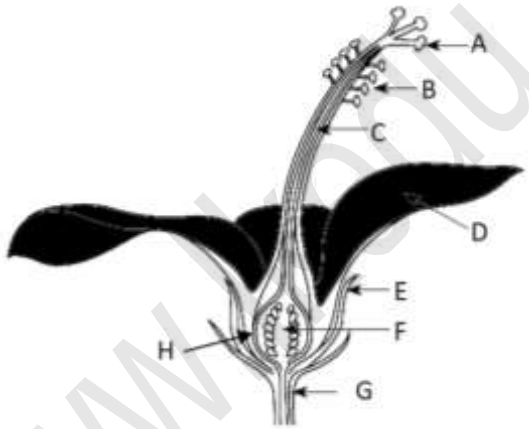
b) Pepper ----------

c) Mimosa ----------

d) Pandanus ----------

e) Orchid ----------

VI. The diagram shows a half flower



i) Name the parts from A to H

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ii) Name the parts in the gynoeceium

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iii) What is ment by pollination?

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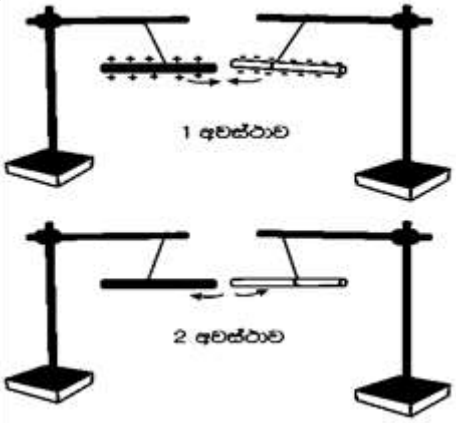
ඵ) Name two adaptations shown by flowers for pollination

ඉ) Complete the given table

Method of dispersal	Two examples
By explosion	
By water	

02 Static Electricity

1) When objects are used in static electricity practicals, they must be dried in order to make the practical success.



I. What happens if a charged object is touched?

II. Explain the occurrence of lightning using three steps

III. What is meant by neutralization of charges?

IV. Explain what happens during state 1 and state 2

V. Give an observation that can be get when two glass rods are rubbed with piece of silk clothe

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VI. State why the ebonite rod rubbed in piece of wool get negatively charged?

VII. What is the equipment used in the laboratory to identify static electrical charges?

VIII. Explain how the charging of polythene rod occurs when it rubbed with piece of silk clothe

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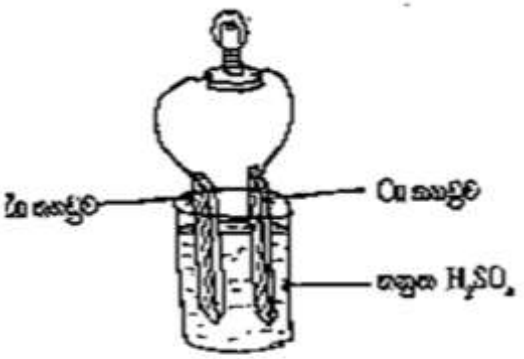
IX. You are provided with 1000 μF capacitor, three dry cells, a bulb and few wires. Draw a set up to demonstrate the charging and discharging of the capacitor

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03 Electricity

01 Given below is a set up prepared using few materials



(i) What is the name given to the given set up?

(ii) Give an observation you can get from this activity

(iii) Name the positive and the negative terminal out of the given plates

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(iv) What can be observed if a coil is connected to the set up instead of the bulb?

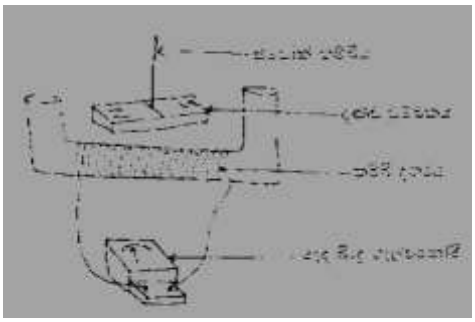
(v) Give two problems associated with this set up

(vi) What is the chemical you can use instead of sulphuric acid from your house hold?

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02. observe the set up and answer the given questions



(i) What will be the reading of the galvanometer if the bar magnet is in stationary position?

(ii) What will be the reading of the galvanometer if the bar magnet is moved?

(iii) What is the principle used here?

(iv) Name an instrument made using the above mentioned principle

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(v) Give two things you can do to increase the efficiency if the given set uo

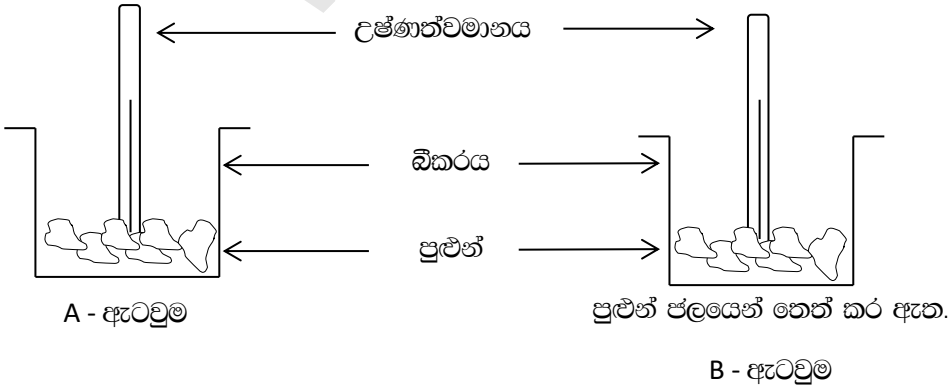
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(vi) What is meant by an alternative current?

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04 Water

The given set up was made by a student to check the functions of water



(a) What reading should be taken by the student before doing the activity?

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(b) What reading should be taken by the student after five minutes?

(c) What are the observations you can get from this activity?

(d) What property of water is checked here?

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05 Acids & bases

A In the laboratory three colourless liquids were found without any lable on the bottles

(a) State how you can identify the three liquids using litmus papers

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(b) Name three natural indicators

(ii) State the observations in each of the following instances

Prepared liquid	Indicator	
	Turmeric boiled water	Shoe flower boiled water
Soap water		
Salt water		
Lime juice		

B. Select the correct answer

01. Which liquid can turn red litmus to blue?

a) Salt solution b) Lime water c) Lime juice d) Water

02. An indicator that can be seen in the laboratory is,

a) Sodium hydroxide b) Methyl orange c) Sulphuric acid d) Calcium hydroxide

03. What is the natural colour of pH papers?

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a) Yellow b) Blue c) Red d) Purple

04. Which turns phenolphthalein into pink?

a) Diluted sulphuric acid b) Sodium hydroxide c) Diluted Nitric acid d) Soda water

05. Which answer contain only acids?

a) Lime, Soap, Salt b) Lime, Salt, Vinegar c) Vinegar, Lime, Tamarind d) Lime, Salt, Vinegar

06 Animal Diversity

A . answer the given questions using the following animals

Leaf insect, Frog, Earthworm, Prawn, Mouse, Fish, Bat, Crow, Whip snake, Centipede

I. Name the vertebrates

II. Which animals shows streamline shape?

III. Name two animals which shows camouflage

IV. Name the mammal who can fly

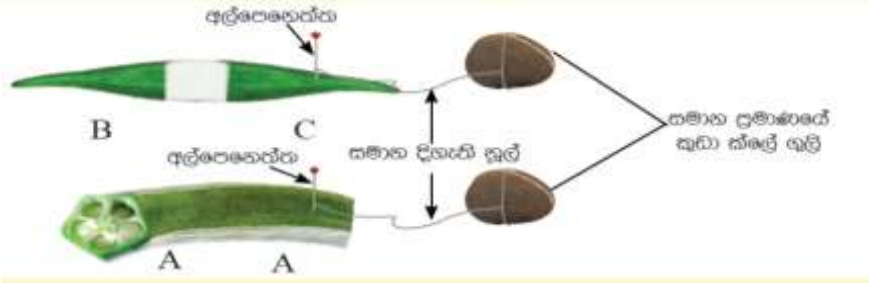
Name the invertebrates

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B. Select the correct answer

a) A group of students did an experiment using the following set up. If the prepared ladies fingers were put into water, what will be the conclusion?

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I. All the living organisms show a streamline shape

II. Water is a good transport medium

III. Fishes need a streamline shape to live in water

IV. Birds need a streamline shape to live in air

b) Select the answer with vertebrates only

I. Cow, Snail, Crow II. Butterfly, House sparrow, Bat

III. Gecko, Monitor, Crocadile VI. Crab, Prawn, Shark

c) Select the invertebrate

I. Frog II. Sea horse III. Prawn VI. Rat snake

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