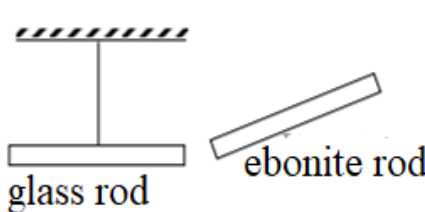
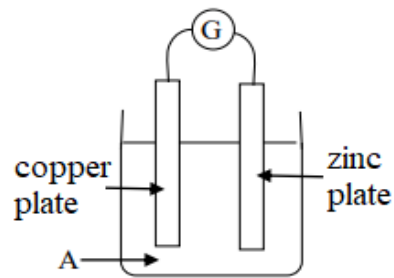
	Visakha Vidyalaya - Colombo 05 FIRST TERM TEST - 2023 GRADE 7 Science	<div style="border: 1px solid black; border-radius: 15px; padding: 5px; display: inline-block;"> 2 Hours </div>
Name/Index Number:		

- Answer all questions.
- Underline the correct/most appropriate choice.

1. Respiratory roots could be seen in,
 (1) orchid (2) banyan (3) *Pandanus* (4) *Sonneratia*
 2. Which of the following is **not** a function of underground stems?
 (1) Storing food (2) Perennation
 (3) Bearing up of leaves, flowers and fruits (4) Producing new plants
 3. Which of the following belong to the androecium?
 (1) Anther & filament (2) Stigma & style
 (3) Ovary & ovules (4) Sepals & petals
 4. Select the feature seen in all monocotyledons.
 (1) Compound leaves (2) Unbranched stem
 (3) Taproot system (4) Network venation
 5. A glass rod rubbed with silk and an ebonite rod rubbed with wool are brought close to each other.
 Select the correct statement about this incidence.
 (1) Glass rod is negatively charged
 (2) Ebonite rod is positively charged
 (3) Two rods attract each other
 (4) Two rods repel each other
- 
6. Capacitance of a capacitor is measured in,
 (1) Newtons (2) Farads (3) Volts (4) Amperes
 7. Which of the following is **not** a source of electricity?
 (1) Solar cell (2) Bicycle dynamo (3) Electric motor (4) Lead-acid accumulator
 8. Which device produces an alternating current?
 (1) Solar cell (2) Button cell (3) Bicycle dynamo (4) Lead-acid accumulator

9. Select the correct statement about the set up on the right.

- (1) This shows a dry cell
- (2) Zinc plate is the positive terminal
- (3) This produces an alternating current
- (4) "A" shows dilute sulphuric acid



10. A plant which stores food in its main root is,

- (1) ginger
- (2) sweet potato
- (3) carrot
- (4) onion

11. Select the pair of plants which have compound leaves.

- (1) Coconut, rubber
- (2) Manioc, breadfruit
- (3) Rose, papaw
- (4) Curry leaves, kohila

12. Select the choice which contains fruits and seeds which disperse by wind only.

- (1) Arecanut, lotus, orchid, tomato
- (2) Love grass, orchid, chillies, tiger claw
- (3) Cotton, wara, hora, gammalu
- (4) Endaru, tiger claw, tomato, chillies

13. Which of the following turns turmeric-boiled water red?

- (1) Soap water
- (2) Slat solution
- (3) Kerosene
- (4) Lime juice

14. What is the device shown in the diagram?

- (1) LED
- (2) Capacitor
- (3) Diode
- (4) Resistor



15. What is the colour of pH papers in a neutral substance?

- (1) Red
- (2) Purple
- (3) Blue
- (4) Light green

16. Which indicator turns purple when added to a basic substance?

- (1) Phenolphthalein
- (2) Methyl orange
- (3) Litmus
- (4) pH papers

17. Limewater is,

- (1) an acid
- (2) a base
- (3) a salt
- (4) a neutral substance

18. Twenty ekels were coloured in red, green, white and brown. They were spread over a lawn. Some students were given one minute to pick them. Which colour ekels should be the least to be picked by student?

- (1) Red
- (2) Green
- (3) White
- (4) Brown

19. Which one is a vertebrate?

- (1) Hermit crab
- (2) Starfish
- (3) Snail
- (4) Turtle

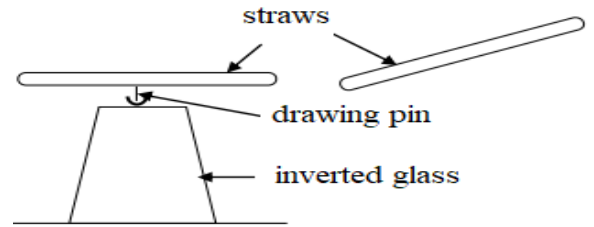
20. Why do we feel cool when bathing?

- (1) Coolness goes to the body from water
- (2) Heat goes to the body from water
- (3) Heat goes to water from the body
- (4) Coolness goes to water from the body

PART II

- Answer five questions only including the first question.

01. (A) A straw was rubbed with a piece of polythene. It was placed on an inverted glass. Another rubbed straw was brought close to it as shown.



- (i) Will the first straw rotate towards the second straw?
(1)
- (ii) Write the reason for your answer in (i) above. (1)
.....
.....
- (iii) A glass rod rubbed with silk was brought close to this straw. The straw rotated towards the glass rod.
(a) What should be the type of charge on the straw? (1)
(b) Write the reason for your answer in (a) above. (1)
.....
.....
- (iv) The glass rod and the straw were touched with each other. After that, they were brought close to each other again.
(a) What could be observed here? (1)
(b) What is the type of charge exchanged between the glass rod and the straw here? (1)
.....
(c) What happens to the glass rod and the straw after exchanging the charges? (1)
.....
- (v) Who was the first scientist to discover that light materials are attracted to the charged objects? (1)
.....
- (vi) Write 2 uses of static electricity. (2)
.....
.....

(B) Capacitors are used in electronic circuits.

- (i) What is the use of capacitors? (1)
- (ii) Show in a circuit diagram how to charge a capacitor (you must mark the positive and negative terminals of the capacitor)
- (iii) What could be observed when the charged capacitor is connected to an LED?
.....
- (iv) What happens to the capacitor here? (1)

02. Some plants found in a home garden are given below.

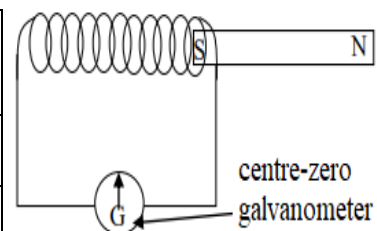
Akkapana	Manioc	Ginger	Coconut
Kathurumurunga	<i>Drynaria</i>	Curry leaves	

- (i) Select from the above list the plants having the features given below. (4)
- (a) Non-flowering plant
- (b) Plant with an underground stem
- (c) Plant with storage roots
- (d) Monocotyledon
- (ii) What is the main function of a plant leaf? (1)
- (iii) Write 2 other functions of akkapana leaf except the one mentioned in (ii) above. (2)
-
-
- (iv) Select from the above list 2 plants which have compound leaves in them. (2)
-
- (v) What is the method of dispersal of coconut fruit and seed? (1)
-
- (vi) Write a difference seen between a coconut seed and a kathurumurunga seed. (1)
-

03. (A) The diagram shows how a magnet is moved into a coil.

- (i) Complete the table given below with the observations made in each instance given. (2)

Instance	Deflection of the indicator of the galvanometer
Moving the magnet into the coil	Deflects to right
Keeping the magnet stationary inside the coil
Moving the magnet out of the coil



- (ii) What do you call generation of electricity by the above method? (1)
-
- (iii) Name a device which produces electricity by this method. (1)
-
- (iv) Write 2 changes which could be done in the above set up to increase the speed of deflection. (2)
-
-

(B) The diagram shows how two LEDs and a centre-zero galvanometer are connected to two dry cells.

(i) Which out A and B LEDs light here? (1)

.....

(ii) LEDs A and B LEDs are reconnected by interchanging the terminals of the dry cells? Which one will light now? (1)

.....

(iii) What do you call the type of the current which flows through the circuit in the above instances? (1)

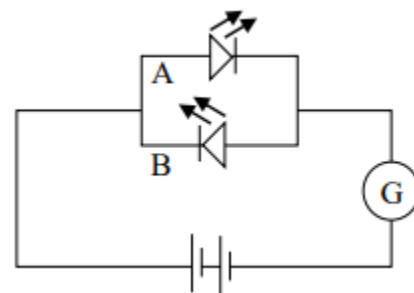
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(iv) Dry cells in the circuit are replaced with a bicycle dynamo. Then the dynamo is rotated. What could be observed in LEDs? (1)

.....

(v) What do you call the type of current flowing through the circuit after connecting the dynamo? (1)

.....



04. (A) Water is an essential component for the survival of organisms.

Consider the following instances related to water.

A – using water in radiators of vehicles

B – sea water being salty

C – glucose reacting with oxygen to produce energy in cells

(i) Write the property of water related to each A, B and C. (3)

A B C.....

(ii) Select out of wax, salt, camphor, glucose, condys, kerosene and vinegar, two substances well soluble in water. (2)

.....

(B) The set up arranged to separate substances dissolved in water is given below.

(i) Name A and B in this set up. (2)

A

B

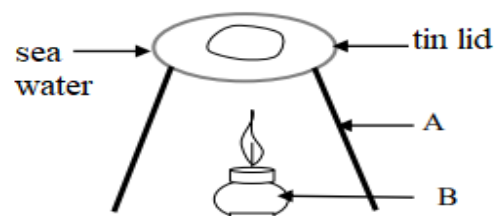
(ii) What is the observation made here? (1)

.....

(iii) Write the chemical name of the main salt dissolved in sea water. (1)

(iv) Substances dissolved in water could be obtained by vapourization of water. Name two products obtained in this way. (2)

.....



05. An activity done to identify acidic, basic and neutral substances is given below.

- (i) Complete the table using your knowledge on indicators. (4)

Substance	Colour of blue litmus	Colour of red litmus
Soap water	No colour change
Salt solution
Lime juice

- (ii) Group the above substances according to above observations. (3)

Acids Bases Neutral substances

- (iii) Write the pH value range of basic substances. (1)

- (iv) What is the indicator which shows a colour change in bases only? (1)

- (v) Name two acids found in the laboratory. (1)

.....

- (vi) Write an instance in day to day life where bases are used to neutralize acidity. (1)

.....

06. Some animals identified by students on a fieldtrip are given below.

Squirrel Snail Earthworm Crow Butterfly Lizard Frog Caterpillar

- (i) Select the vertebrates out of these animals. (2)

.....

- (ii) It was difficult to separate some animals from the environment because of an adaptation. What do you call it? (1)

- (iii) Write an advantage of the above adaptation for animals. (1)

.....

- (iv) Select from the above list two animals which show this adaptation. (1)

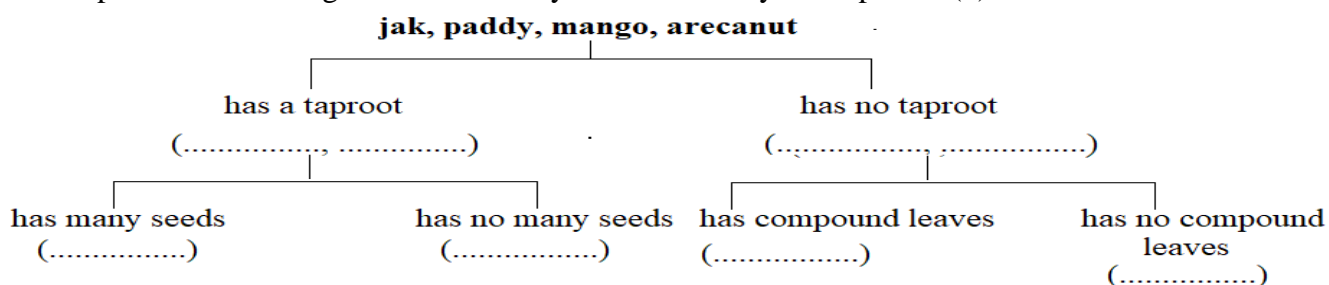
- (v) What are the two main groups of animals which have a streamlined body? (1)

.....

- (vi) Write a use of the above body shape for animals. (1)

.....

- (vii) Complete the following dichotomous key done to classify some plants. (4)





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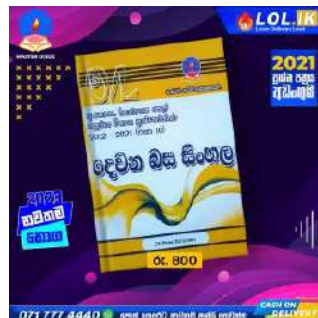
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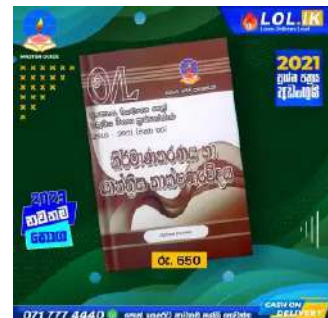
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