



ST. PETER'S COLLEGE - COLOMBO 04

SPECIAL EVALUATION -2022

Grade - 07

Science

02 Hours

Part 1

- 1) Which plant has not got a plant without compound leaves,
 - a. Rubber
 - b. Curry leaves
 - c. Papaw
 - d. Tamarind
- 2) The group of plants that belong to monocotyledons,
 - a. Bean, paddy, arecanuts
 - b. Jak, Guava, mango, karapincha
 - c. Beans, jak, paddy, coconut,
 - d. Coconut, arecanut, paddy, palmyra
- 3) A non-flowering plant
 - a. Cyprus
 - b. Coconut
 - c. Mango
 - d. Karapincha
- 4) An incorrect statement associated with aerial roots.
 - a. Sometimes may carry out photosynthesis
 - b. Gives additional support to the plant stem
 - c. Absorbs water vapor from the atmosphere
 - d. Can be found in epiphytic plants like orchids
- 5) A device used to store static electric charges,
 - a. Cell
 - b. Diode
 - c. capacitor
 - e. resistor

- 6) The correct statement associated with static electricity is,
- a. Electric charges are generated when two objects are rubbed against each other.
 - b. Charges repel each other
 - c. Gold leaf electroscope is the device used to identify electrostatic charges.
 - d. All of the above is correct
- 7) A source of electricity that generates electricity through a chemical process,
- a. Solar cell
 - b. Dynamo
 - c. Dry cell
 - d. Generator
- 8) The equipment that is not suitable to measure a small flow of current through a circuit
- a. Ammeter
 - b. Galvanometer
 - c. multimeter
 - d. Milliammeter
- 9) A animal that doesn't belong to the group Reptilia,
- a. Turtle
 - b. Salamander
 - c. Viper
 - d. Python
- 10) The group of animals that belong to the vertebrates,
- a. Fish, parrot, octopus
 - b. Earthworm, crab, prawn
 - c. Toad, Lizard, bat
 - d. Squirrel, snake, earth worm
- 11) Fish that belong to the group Pisces are
- a. Vertebrates
 - b. Streamlined body shape
 - c. Use fins or locomotion
 - d. All of the above
- 12) The most suitable feature to separate a mango plant and a jak plant is based on the,
- a. Stem
 - b. Type of fruits it produces
 - c. Type of root system
 - d. All of the above

- 13) An invertebrate with an extremely hard shell which shows bilateral symmetry,
- a. Tortoise
 - b. Snail
 - c. Armadillo
 - d. Prawn
- 14) A substance which has a Ph value of 7 and does not change the color of litmus paper,
- a. Vinegar
 - b. Baking soda
 - c. Salt solution
 - d. Lime juice
- 15) Select the correct statement associated with water ,
- a. All living animals are predominantly made of water
 - b. Aquatic animals use water as their main living environment
 - c. The production and release of excretory material takes place in a medium of water
 - d. All of the above
- 16) An incorrect statement related to solar cells,
- a. Artificial satellites are powered by solar cells.
 - b. Electricity generated by solar cell by a chemical reaction.
 - c. An alternating current is produced in them.
 - d. Solar panels consist of several solar cells.
- 17) Not a source of electricity,
- a. Dynamo
 - b. Solar cell
 - c. Dry cell
 - d. Diode
- 18) Substance that cannot be used as a natural indicator,
- a. Soda water
 - b. Turmeric boiled water
 - c. Arecanut boiled water
 - d. Blue katarolie boiled juice
- 19) Generation of electricity in a conductor when magnetic field is cutting with the conductor is,
- a. Alternating current
 - b. Electro magnetic induction
 - c. Direct current
 - d. None of the above
- 20) The part of a flower that directly involves in the production of seeds,
- a. Stigma
 - b. Ovary
 - c. Sepals
 - d. Filament

Science

Grade 07

2 Hours

Part II

01. The table below shows the colour change of the indicators with solutions given in the test tubes A, B, and C that needs to be classified.

Sample	Blue litmus	Red litmus	Phenolphthalein
A	no colour change	turns blue	Pink
B	no colour change	no colour change	colourless
C	Red colour	no colour change	colourless

i. Out of the A, B, C solutions, mention which solution shows the following properties.

Acidic properties - _____
Basic properties - _____
Neutral properties - _____

(3 Marks)

ii. What is an indicator? _____

(1 Mark)

iii. Mention two acids that are used frequently in the laboratory.

(2 Marks)

iv. Mention 2 bases that are used frequently in the laboratory.

(2 Marks)

v. Why do people take milk of Magnesia?

(2 Marks)

02. The ability of organism to adjust to it's own environment is adaptation.

i. What is the need for adaptation in animals?

.....

(2 Marks)

ii. Name the specific adaptations shown by the below given animals for it's existence.

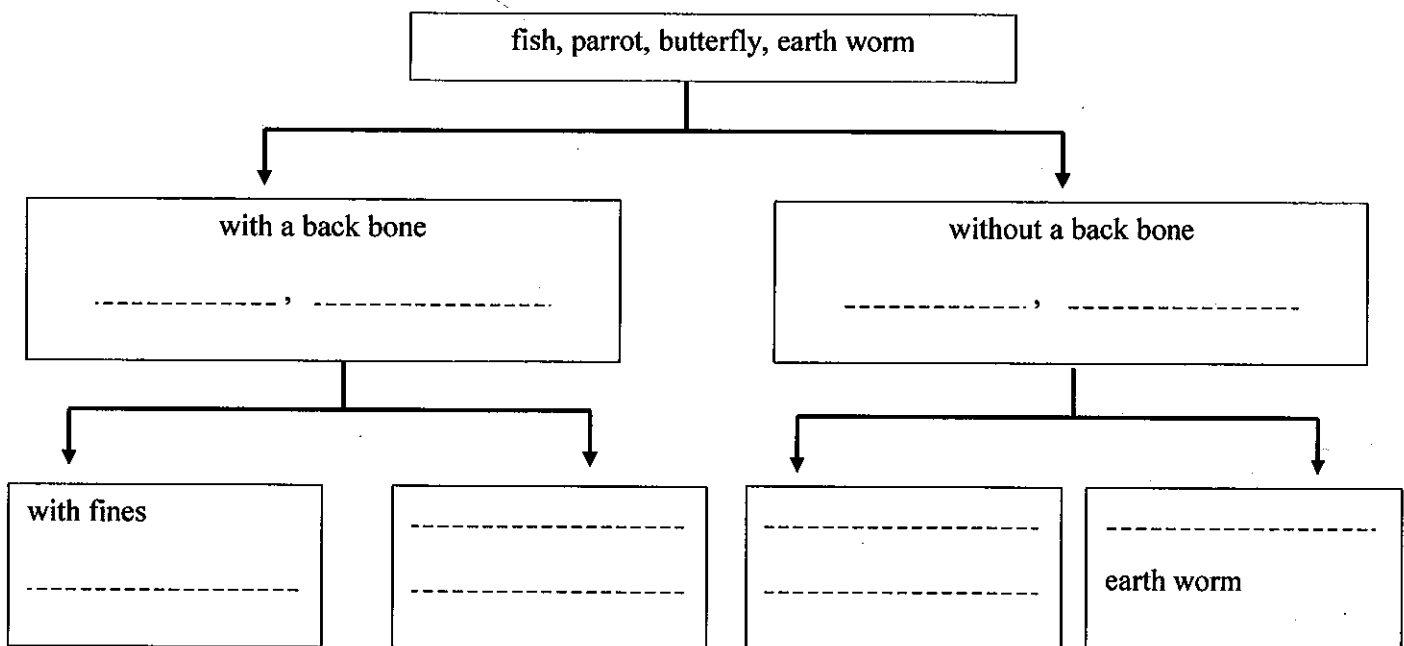
Lizard species -

Leaf insect -

Snail -

(3 Marks)

iii. Complete the below given dichotomous key.



(5 Marks)

03. There are 2 ways that the electric current flows. They are the alternating current and direct current.

i. Mention the what is alternating current and direct current.

.....

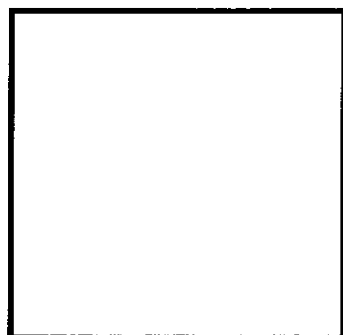
(2 Marks)

ii. Give 2 examples for the devices that generate alternating current.

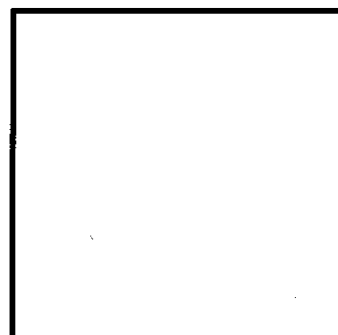
iii. Give 2 example for the devices that generate direct current.

(2 Marks)

iv. Show the pattern of the graph, when direct current and alternating current are plotted against time in the below given space.



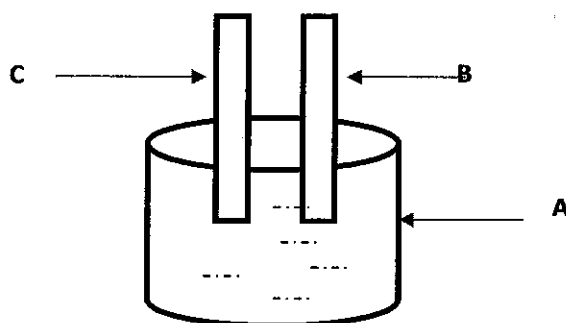
alternating current



direct current

(4 Marks)

04. Answer the questions based on the given apparatus.



i. Mention an appropriate name given to the above apparatus.

(1 Mark)

ii. Write the materials used for the above labeled materials.

A - -----
B - -----
C - -----

(3 Marks)

Storage roots - _____
Stilt roots - _____

(2 Marks)

- iv. Name a plant with a
photosynthetic stem - _____
underground stem - _____

(2 Marks)

(3 Special properties of water plays a major role in the existence of life on earth.

- i. Mention the special property of water that is important in the given instances.

- Water used a radiator of vehicles - _____
- When producing saline and vaccines for purposes of health.

(2 Marks)

- ii. Water is a neutral substance, mention its PH value _____

(2 Marks)

- iii. Mention 2 uses of water for the existence of aquatic organisms on earth.

(2 Marks)

- iv. Write 2 instances where water is important as a solvent.

(2 Marks)

- v. What human activities cause water pollution.

(2 Marks)

In the above given apparatus.

iii. Mention the material used as

the positive (+ ve) terminal

the negative (- ve) terminal

(2 Marks)

iv. Write a prominent weakness shown by the above given apparatus, when it is in use.

.....

(1 Mark)

v. When you set up the above apparatus by fixing a torch bulb, while allowing it to illuminate
Mention how to increase the flow of current effectively to increase the brightness of the bulb.

.....

(2 Marks)

vi. Mention the name of the device that we use to measure the flow of current through a circuit.

.....

(1 Mark)

05. The stems, leaves, flowers are the most parts of a flowering plant.

i. Write the main function of the below given parts of the plant.

stem -

leaves -

flower -

roots -

(4 Marks)

ii. Flowering plants are mainly divided into two groups as monocotyledonous and dicotyledonous.
Mention the specific features shown by the below given parts of the monocotyledonous plants.

plant stem -

root system -

(2 Marks)

iii. Write the function of the given root types.