

Science -

First Term Evaluation 2025

Grade 8

Time: 2 hours

5-09-2025

Part I



- Answer all the questions
- Underline the correct answer

01. A habitat of a microorganism is,

- | | |
|-----------------------|-----------------------|
| 1. Air | 2. Saline environment |
| 3. On living organism | 4. All above |

02. A thing which is produced due to the activity of yeast in sugar solution is,

- | | |
|------------------|---------------|
| 1. Oxygen gas | 2. Lime water |
| 3. Ethyl Alcohol | 4. Water |

03. Which condition is controlled by refrigerating food?

- | | |
|---------------------|--------------------------|
| 1. Temperature only | 2. Temperature and moist |
| 3. PH | 4. Moist |

04. Select the correct answer which does not match the microorganism and the disease caused by that microorganism.

- | | |
|-------------------------|-----------------------|
| 1. Viruses - Leishmania | 2. Bacteria - Leprosy |
| 3. Fungi - Sore | 4. virus - Polio |

05. Which animal group possesses the two forms as medusa and polyps?

- | | |
|---------------|-------------|
| 1. Arthropoda | 2. Mollusca |
| 3. Annelida | 4. Cnidaria |

06. A student is collected the following information about an animal group

- Possess a dry skin
- No glands are present in the skin
- Present scales on their skin
- Crawling

Which animal group possesses the above features?

- | | |
|-------------|-------------|
| 1. Pisces | 2. Reptalia |
| 3. Amphibia | 4. Mammalia |

07. Which group of animal does not belong to invertebrates?

- | | |
|-------------|-------------|
| 1. Cnidaria | 2. Annelida |
| 3. Amphibia | 4. Mollusca |

08. An animal belonging to annelida is,

- | | |
|---------------|----------|
| 1. Jelly fish | 2. Snail |
| 3. Butterfly | 4. Leech |

09. A plant with a curved leaf tip is,

- | | |
|----------------|-------------|
| 1. Jak | 2. Niyagala |
| 3. Pomegranate | 4. Coconut |

10. A special feature that can be observed in "Rampa" is,

- | | |
|-----------------------------|--------------------------|
| 1. Having propagative roots | 2. Having prop roots |
| 3. Having stilt roots | 4. Storing water in leaf |

11. Some specific characters of the particular arrangement of a matter is given below

- Particles are oderly arranged
- Particles are strongly bound to each other
- Particles do not move relative to one another

Above matter can be,

- | | |
|------------|----------------------|
| 1. A solid | 2. A liquid |
| 3. A gas | 4. A liquid or a gas |

12. Select the incorrect statement about the sound,

1. Human ear is sensitive for any range of sound
2. Days can hear some sounds but which are unable to hear by humans.
3. Some diseases can be cured by using music
4. Even a music tone may be unbearable to our ears, when that sound is very high

13. Which of the following response contains only matter?

- | | |
|------------------------------|------------------------------|
| 1. Air , water , cotton wool | 2. Heat , water , sand |
| 3. Brick , light , sound | 4. Metal , light , limewater |

14. A liquid in room temperature is,

- | | |
|---------|------------|
| 1. Gold | 2. Glass |
| 3. Iron | 4. Mercury |

15. Plant with prop root is,

- | | |
|-----------|-----------|
| 1. Banyan | 2. Glass |
| 3. Jak | 4. Ginger |

16. A gas produced in Photosynthesis is,

- | | |
|------------------|--------------|
| 1. Oxygen | 2. Nitrogen |
| 3. Carbondioxide | 4. All above |

17. Rubber is used to produce tyres and tubes due to its,

- | | |
|------------------|----------------------|
| 1. Rough texture | 2. Hardness |
| 3. Elasticity | 4. Heat conductivity |

18. Reproduce new plants by suckers,

- | | |
|-----------|----------------|
| 1. Jak | 2. Guvava |
| 3. Banana | 4. Temple tree |

19. Plant with a climbing stem is,

1. Beans
3. Gotukola

2. Coconut
4. Daluk

20. A music instrument which is used for the service of religious places,

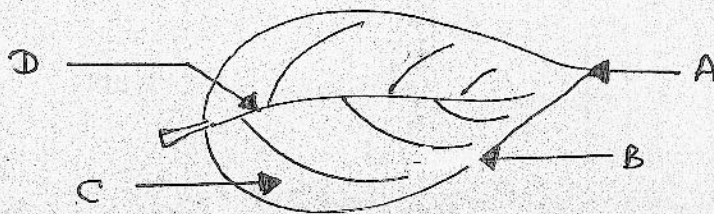
1. Horanewa
3. Double drum (Thammattama)
2. Large drum (Daula)
4. All above

Part II

- Answer the first question and four other
- Total number of questions which should be answered is five

(01). Plant leaf is the most important structure of a plant which is adapted for a specific function

(i). Name the parts from A to D



(4 marks)

(ii). Fill in the blanks

Most leaves are green in colour. The main function of it is (1). _____
_____. (2). _____ and (3). _____ gas is used from the
environment as raw materials for that process. A leaf is typically flat and thin to get
(4). _____ energy for the above process efficiently

(4 marks)

(iii). The pattern of fixing the leaf to the stem of a plant is known as leaf arrangement. Draw and name two leaf arrangements.

(4 marks)

(iv). Some plant leaves have other functions Match the plant leaves given in the brackets with their functions given below

1. Some leaves are adapted to store water -
2. Reduced number of leaves to minimize transpiration -
3. Some leaves produce new plants through asexual reproduction -
4. Thin leaves to minimize transpiration -

(Begonia , Kasa , Aloe , Navahandi)

(02). (A). The basic functions of a stem are supporting to the plant. In addition to the basic functions, stems have adapted to fulfill other functions

(i). Name two functions of underground stems . (2 marks)

(ii). (a). What is the advantage of having a photosynthetic stem to a plant?

(b). Name two plants with photosynthetic stems

(2 marks)

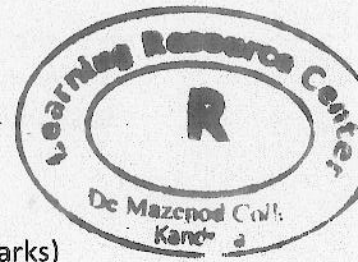
(iii). What is the special feature of the plant stems like sugarcane and kittul?

(2 marks)

(B). Name the function of the plants given below

1. Tuberous roots -
2. Stilt roots -
3. Respiratory roots -
4. Aerial roots -
5. Climbing roots -

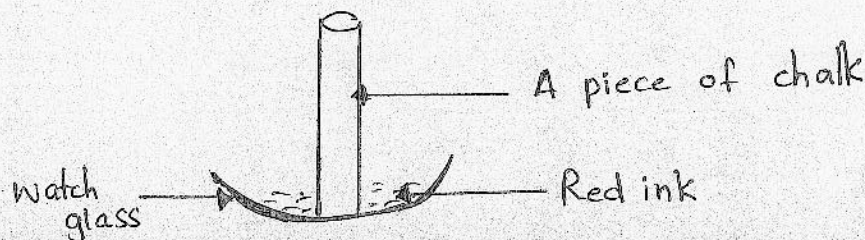
(5 marks)



(03). (A). All three states, solid, liquid and gas are discontinuous

(i). The following activity is used to investigate the discontinuity of solid matter.

What is your observant in this activity?



(ii). Briefly explain scientific reasons for the following instances.

1. When gold objects come into contact with mercury, they get damaged.
2. The scent of the lighted joss stick spreads throughout the classroom

(4 marks)

(B). (i). Name four vertebrate groups. (2 marks)

(ii). Name an aves that cannot fly. (1 mark)

(iii). Name two basic features of Mammalia. (2 marks)

(04). The growth of some micro organisms on food, make then unsuitable for human consumption

(i). Write the specific names for functioning of micro-organisms on following food types

1. High in sugar -
2. High in fats/lipids -

(ii). Consider the activity that you have used to study the action between sugar and yeast Mention two observations of that activity. (2 marks)

(iii). What is the advantage to use yeast in bakery industry? (1 mark)

(iv). Name three beneficial effects of micro organisms. (3 marks)

(v). Write the type of micro organisms which caused for following diseases separately.

1. Tuberculosis -
2. Pityriasis -
3. Dengue -

(05). (A). (i). Name the invertebrate group that bears each of the features given below

1. Possess an external skeleton/exoskeleton -

2. Possess a skin moistened with mucus –
3. Radially symmetrical body –
4. Body is wormy form –

(4 marks)

- (ii). Name two arthropods that can fly.
- (B). (i). Who is the first Dutch scientist that observed micro organisms
- (ii). What is the unicellular fungal variety that can be observed mainly in a coconut water sample Which is kept open for three days.
- (iii). These organisms can be found in hostile environments.
Name 4 such environments (hostile environments)
- (iv). Which group of micro organisms show both living and non living characteristics



(06). (A). Put "✓" if the statement given below are right and Put "x" if the statement given below are wrong.

1. Arthropoda is the largest group in the animal world which contains the highest number of animal species ()
2. Respiration of reptalia is carried out by mouth and through wet skin ()
3. Democritus stated that matter is made of particles ()
4. Growth of micro organisms on clothes mostly affected by fungi ()
5. Growth of micro organisms on clothes mstly affected by fungi ()
6. Gotukola reproduce by runners ()

(B). Select the suitable answer for part "A" from part "B" and write the relevant letter on the dotted line

(A)

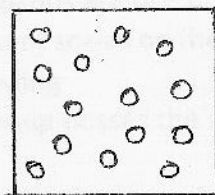
1. Has a thick texture
2. A plant with an underground stem
3. Has a climbing stem
4. A compound
5. Has a streamlined body

(B)

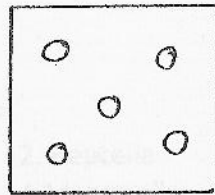
- a. Glucose
- b. Turmeric
- c. Tilapia
- d. Sand paper
- e. Beans

(5 marks)

(07).



A



B

(i). Liquid matter and gaseous matter represent in A and B. Identify the picture which represents liquid matter (1 mark)

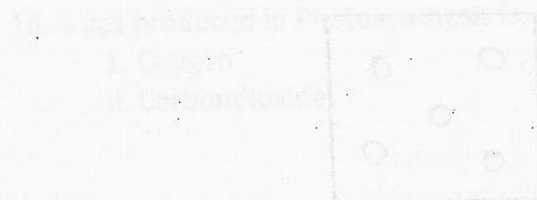
(ii). What is the reason that liquids and gases do not have a definite shape?

(2 marks)

(iii). Mention two differences of particular arrangements of a solid matter and a gaseous matter. (2 marks)

(B). (Guitar , Thabla , Geta beraya , Flute , Violin , Sitar)

- (i). Categorize the musical instruments mentioned above, into three groups according to the way they produce sound. (3 marks)
- (ii). Name two musical instruments that had been used for the service in religious places in ancient Sri Lanka. (1 mark)
- (iii). Write how the frequency of sound can be changed when playing a guitar. (2 marks)



(i). Liquid matter and gaseous matter represent in A and B. Identify the picture which represents liquid matter. (1 mark)

(ii). What is the reason that liquids and gases do not have a definite shape?

(iii). Mention two differences of particular arrangements of a solid matter and a gaseous matter. (2 marks)

(B). Guitar, Flute, Gita, Peta, Flute, Violin, Sitar