



Name :

1. Which category of microorganism cannot be observed through an optical microscope?
 - I. Fungi
 - II. Protozoa
 - III. Virus
 - IV. Bacteria

2. The microbial activity on food with protein is known as,
 - I. Sterilization
 - II. Fermentation
 - III. Rancidity
 - IV. Putrefaction

3. Which of the following has a sedentary life?
 - I. Jellyfish
 - II. Octopus
 - III. Hydra
 - IV. Prawn

4. Which of the following answers includes organisms that has radially symmetrical body and bilaterally symmetrical body respectively?
 - I. Hydra, Sea anemone
 - II. Scorpion, Sea anemone
 - III. Jellyfish, Prawn
 - IV. Sea anemone, Jellyfish

5. What can be demonstrated by activity in the picture?
 - I. Discontinuous nature of matter
 - II. Discontinuous nature of liquid matter
 - III. Discontinuous nature of Paint
 - IV. Discontinuous nature of solid matter

6. Which chemical compound can be used for above activity?
 - I. Water
 - II. Salt solution
 - III. Sugar solution
 - IV. Potassium permanganate solution



7. Carbon dioxide is formed by the combination of elements,

- I. Hydrogen and Carbon
- II. Carbon and Oxygen
- III. Hydrogen and Chlorine
- IV. Nitrogen and Hydrogen

8. Which of the following response contains only matter?

- I. Water, Ari, Dust
- II. Water, Heat, Air
- III. Sound, Water, Dust
- IV. Water, Light, Compounds

9. Mercury is used for thermometers. A student mentioned 3 statements about mercury,

- a) Pure substance
- b) Non-metal
- c) Expand when heated

Which answer contains correct statements,

- I. a and b
- II. b and c
- III. a and c
- IV. All above

10. Which of the following has the greatest Boiling point and melting point?

- I. Aluminium
- II. Iron
- III. Lead
- IV. Copper

11. What is the plant from below is reduced leaves into spines to minimize transpiration?

- I. Rose
- II. Cactus
- III. Bougainvillea
- IV. Lime

12. Which industry does not use microorganisms,

- I. Producing antibiotics
- II. Batik industry
- III. Coir industry
- IV. Bakery products

13. Find below characteristics of element called 'X',

- a) Conducting electricity
- b) Breaking into small pieces when a force is applied

Choose the correct answer for 'X',

- I. Gold
- II. Graphite
- III. Sulphur
- IV. Lead

14. Which instruments produce sound by vibrating air columns?

- I. Flute, Harmonium (Sarpina), Large drum (Daula)
- II. Harmonium (Sarpina), Horanewa, Large drum (Daula)
- III. Flute, Harmonium (Sarpina), Horanewa
- IV. Harmonium (Sarpina), Flute, Double drum (Tammattama)

15. The leaves of plants in arid environment, are adopted to minimize transpiration,

- a) Thin leaves
- b) Leaves reduced to spines
- c) Reduced number of leaves

- I. Only a is correct
- II. Only a and b are correct
- III. Only a and c are correct
- IV. a, b and c all are correct

16. Example for a plant without propagative roots,

- I. Curry leaves
- II. Guava
- III. Uguressa
- IV. Beli

17. What is the International unit, used to measure density?

- I. Kilogram per cubic meter
- II. Gram per cubic meter
- III. Kilogram per cubic centimeter
- IV. Gram per cubic centimeter

18. What elements are combined to form water?

- I. Carbon and Oxygen
- II. Oxygen and Nitrogen
- III. Hydrogen and Oxygen
- IV. Nitrogen and Hydrogen

19. "Matter is made of very small particles". An acceptable notion about the nature of matter was first put forward by,

- I. Democritus
- II. Aristotle
- III. Galileo Galilei
- IV. Isaac Newton

20. _____ is the mass of a unit volume of a given substance.

- I. Weight
- II. Density
- III. Pressure
- IV. Melting point

Part 2

- **Answer the 1st question and 4 other questions.**
- **Use separate papers to write your answers.**

(1) A group of grade 8 students spilled some water on a piece of bread and kept it aside. After few days, they took a sample of the structure that has grown and observed it under the compound microscope.

1. Define Micro-organisms (1 Mark)
2. Who observed microorganisms for the very first time? (1 Mark)
3. What species of the microorganism which was observed on the piece of bread? (1 Mark)
4. Mention 2 factors required for microbial activity. (2 Marks)
5. What is food spoilage? (1 Mark)
6. Mention the microbial activities on the foods mentioned below
 - a) Food with lipids : _____
 - b) Food with sugar : _____
 - c) Food with Proteins : _____(3 Marks)
7. Write 2 actions by giving examples, which we can reduce the microbial activities on food (2 Marks)

8. What is the name/term that we can use for 'use of microorganisms for pest control'? (1 Mark)

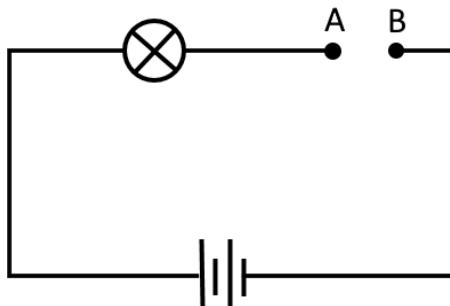
9. Name 2 types of microorganisms which causes harmful effects to humans? (2 Marks)

10. Name 2 products/outcomes which produce after the reaction of Sugar, hot water and yeast. (2 Marks)

(2) Answer the following questions based on the field trip on diversity of plant leaves and leaf arrangements.

1. Write 2 names of leaves which produce new plants through asexual reproduction. (2 Marks)
2. Give an example for leaves which adapted to store water. (1 Mark)
3. The leaves of plants in arid environments are adapted to minimize transpiration. Give 2 examples with their adaptation type. (2 Marks)
4. What is transpiration? (2 Marks)
5. The main function of a leaf is photosynthesis, how does the plant absorb water and air which required for photosynthesis? (2 Marks)
6. What is leaf arrangement? (1 Mark)
7. What is the advantage of having a leaf arrangement? (1 Mark)

(3) Grade 8 students prepared below circuit to identify physical properties of metals and non-metals.



1. Which physical property of matter can be identified using above circuit?
(1 Mark)
2. What will be the observations when insert below things in between A and B?
 - a) Iron nail : _____
 - b) Carbon stick : _____
 - c) Piece of Sulphur : _____
(3 Marks)
3. Draw a diagram to show the organization of particles in solid, liquid and gas states of matter.
(3 Marks)
4. What are the 2 metal elements exist as liquids in normal environment?
(2 Marks)
5. Density of iron is greater than the density of wood. Draw a named diagram of an activity you can do by using piece of iron, cork stopper and water glass.
(2 Marks)

(4) Read below statements and mark a 'V' if correct, 'X' if wrong.

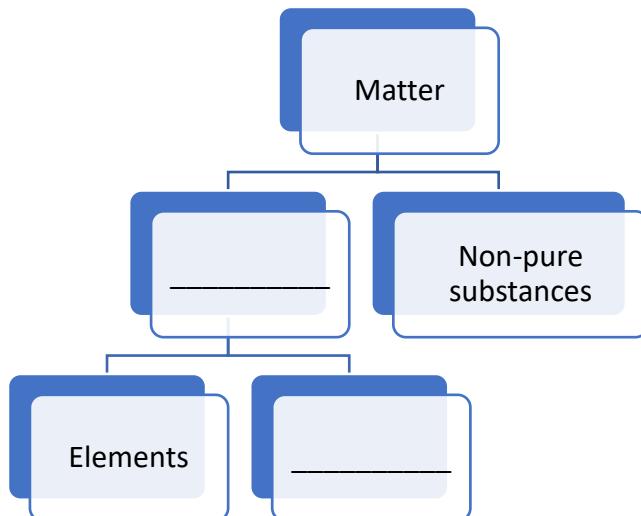
1. Copper is used to make electric cables because its property of electrical conductivity. ()
2. A metal can break into pieces by hammering. ()
3. The melting point and the boiling point can be used to identify the purity of a substance. ()
4. A drum is an instrument which produces sound by vibrating strings. ()
5. Hydra has a radially symmetrical body. ()
6. All Arthropods have jointed appendages. ()
7. Calcium Carbonate is a compound. ()
8. Nitrogen Dioxide is a yellow color gas. ()
9. Chlorophyll does not contain in green color leaves. ()
10. Light and heat can be considered as matter. ()
11. A solid will become a liquid when supplied heat. ()

(1x11 Marks)

(5)

1. Fill in the blanks

(2 Marks)



2. Fill below table with correct names of elements.

Compound	Elements present
Calcium Carbonate	
Sodium hydroxide	
Copper Sulphate	

(3 Marks)

1. Give a simple explanation about below mentioned physical properties of matter

a) Brittleness : _____
b) Malleability : _____

(2 Marks)

2. Write 2 metal elements and 2 non-metal elements.

(4 Marks)

(6)

Dear, Whale, Tiger, Giraffe, Rat, Loris

1. Which group of vertebrates above animals are belongs to?

(1 Mark)

2. Write 2 characteristics of mentioned group of vertebrates in question No 1.

(2 Marks)

3. Classify above animals according to their living environment

a) Water : _____
b) Ground : _____
c) On trees : _____

(3 Marks)

4. What is the group with the greatest number of animals?
(1 Mark)

5. Write the names of microorganism species which cause following diseases

a) Amoebiasis : _____

b) Dengue : _____
(2 Marks)

6. Mention 2 microbial applications in the field of medicine?
(2 Marks)