



De Mazenod College – Kandana
Science

Grade 8

13-07-2023

1st Term Test – 2023

Duration 2 hrs

PART I

- Select the most suitable answer.

1. A main part of a plant which is functioning photosynthesis,
(i) Stem (ii) root (iii) leaves (iv) fruits
2. A plant leaf which conserve water and produce new plants is,
(i) Aloe (ii) Akkapana (iii) Ginger (iv) Gotukola
3. A disease not caused by a virus is,
(i) Dengue (ii) Polio (iii) Common Cold (iv) Typhoid Fever
4. Which gas is produced due to the activity of yeast in sugar solution ?
(i) Nitrogen (ii) Oxygen (iii) Hydrogen (iv) Carbondioxide
5. An animal belonging to Cnidaria is
(i) Nereis (ii) Slug (iii) Jelly Fish (iv) Milipede
6. An amphibian
(i) Ichthyophis (ii) Salamander (iii) Toad (iv) All above
7. The Food type that undergoes rancidity in the presence of microorganisms is
(i) Food with proteins (iii) Food with sucrose
(ii) Food with sugars (iv) Food with lipid
8. Plant does not store food in tap root is,
(i) Carrot (ii) radish (iii) beet (iv) pumpkin
9. A plant with stilt roots is
(i) Vetakeyya (ii) Rampa (iii) Maha Kadol (iv) Banyan
10. Number of elements present in Carbon dioxide is
(i) Two (ii) three (iii) four (iv) One
11. The mass of a unit volume is
(i) Pressure (ii) density (iii) melting point (iv) boiling point
12. Put a piece of sulphur in to a cloth bag and hammered. It crushed into pieces. So sulphur is having this property,
(i) Malleability (ii) Ductility (iii) Brittleness (iv) Elasticity

13. Pointed tip of leaf present in,

- (i) Shoe flower (ii) Akkapana (iii) Temple flower (iv) Banana

14. An instrument which does not produce sound by vibrating strings,

- (i) Guitar (ii) Sitar (iii) Saxophone (iv) Violin

15. Musical instruments are used for the services in religious places

- (i) Large drum (ii) double drum (iii) Conch (iv) All

16. International (SI) units of frequency

- (i) Km (ii) Hz (iii) Kg (iv) N

17. The boiling point of pure water at Standard atmosphere pressure is

- (i) 32°C (ii) 212°C (iii) 100°C (iv) 112°C

18. An element which is not present in Sodium Hydroxide?

- (i) Sodium (ii) Hydrogen (iii) Oxygen (iv) Nitrogen

19. Raw materials for photosynthesis are

- (i) Water, Oxygen (iii) Glucose, Oxygen
(ii) Carbon dioxide, Glucose (iv) Water, Carbon dioxide

20. Thermal conductivity is highest in

- (i) Carbon (ii) Glass (iii) Aluminum (iv) Charcoal

1 x 20 = 20 Marks

2) Put a \checkmark if the statements given below are right and put X if the statements give below are wrong.

- (i) Democritus stated that matter is not composed of particles ()
(ii) Sound is produced by vibrating an object ()
(iii) Begonia produce new plants by roots ()
(iv) Ichthyophis is a reptilian ()
(v) Produce Oxygen due to fermentation ()
(vi) Iron supplied is black colour ()
(vii) Stilt roots present in Banyan tree ()
(viii) Black colour mucor grow on clothes due to fungi ()
(ix) The frequency of seven notes in music are equal ()
(x) Shark is a Mammalia ()

3) Fill in the blanks

(isolation, drop, mainly, coconut, yeast, three, low, fungal, light, observe)

Put the (i) water into a clean container and keep it for (ii) days. Then put a (iii) Of coconut water on to the glass slide and cover it with a cover slip. (iv) the prepared slide through the (v) microscope under (vi) power. This organisms cannot by examined to the naked eye in (vii), but can be observed through a microscope. It is obvious that the unicellular (viii) variety called (ix) can be observed (x) in the above sample.

(1 x 10 = 10 marks)

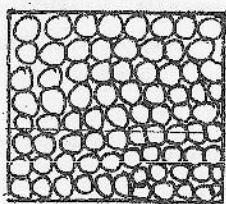
PART II

- First question is compulsory.
- Answer the first question and four other questions.

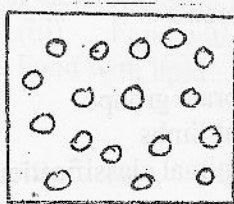
1) A) Solids, liquids and gaseous matter is made up of particles with spaces among them. The reason for the variety of physical properties of solid, liquid and gaseous matter is the diversity of their particular arrangement.

(i) Identify the below figure as solid, liquid and gas

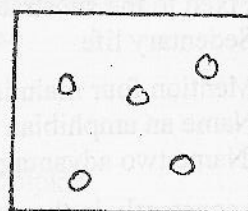
(3 marks)



(A)



(B)



(C)

- (ii) Mention about the movement of particles in gaseous state due to its organization of particles. (1Mark)
- (iii) Mention two physical properties of non metals (2 Marks)
- (iv) Classify following elements as metals and non-metals (Sodium, Mercury, Aluminum, Carbon) (2 Marks)
- (v) Draw a simple circuit which you can use to examine electrical conductivity of a given substance (2 Marks)

(B) The growth of some micro organisms on food make them not suitable for human consumption.

- (i) Write two changes in food items due to the growth of micro organisms (2Marks)
- (ii) What is the specific name for functioning of micro organisms ? (2 Marks)
- (iii) Mention four observation of the activity which is used to study the reaction of sugar and yeast.
(2 marks)
- (iv) Mention three beneficial effects of micro organisms. (2 Marks)
- (v) Name the group of micro organism that caused to the following infectious diseases.
(a) Dengue (b) Sore (2 Marks)

Total = 20 Marks

2) There is an enormous diversity in Sri Lanka. Students identified wonderful information about plant during the studies of plants.

- (i) Mention the specific name of roots that arise from branches (1 Mark)
- (ii) Name an advantage of the roots mentioned above. (1 Mark)
- (iii) Name two leaf arrangements and draw them (2 Marks)
- (iv) Why does transpiration of plant leaves important to the plant ? (1 Mark)
- (v) Mention four adaptations of leaves in arid environments. (4 Marks)
- (vi) Where does the transpiration take place in plants? (1 Mark)

Total = 10 Marks

3) Write the letter of the correct answer from B for the given statement in A (5 Marks)

A

B

- | | |
|---|----------------|
| (i) Skin has sweat glands, sebaceous glands | a) Sea anemone |
| (ii) Make a sound from fast motion of their wings | b) Snail |
| (iii) Respiration is carried out by wet skin | c) Toad |
| (iv) Possess a muscular foot | d) Bee |
| (v) Fixed to the substrate and lead a
Sedentary life | e) Lories |

- B)
- (i) Mention four main invertebrate groups (2 Marks)
 - (ii) Name an amphibian without limbs (1 Mark)
 - (iii) Name two advantages of animal classification (2 Marks)

4) A) Sounds occur constantly in the environment.

- (i) How does the sound produce ? (1 Mark)
- (ii) Sources of sound can be divided into three categories according to the part that vibrates when producing sound. Name the 3 categories and mention an example for each (3 Marks)
- (iii) Mention 2 instances that musical therapy can be used (2 Marks)

- B)
- Number of vibrations of a sound source produced in unit time is called the frequency
 - i. Mention the international standard (SI) units of frequency and its symbol (2 Marks)
 - ii. Find the frequency, if an object vibrates 50 times in 5 seconds. (1 Mark)
 - iii. How can you tune the frequency of sound when playing a guitar ? (1 Mark)

Total = 10 Marks



- 5) When making a glass of orange juice, the seeds were deposited at the bottom of the glass. After dissolving sugar the seeds were floated.

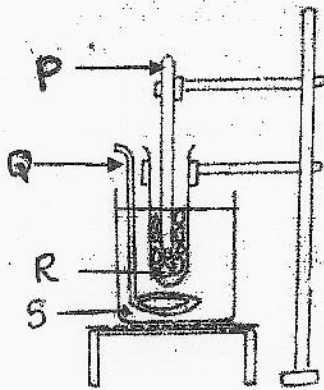
- (i) What is the reason for the above observation? (2 Marks)
- (ii) What is called the density of a substance? (2 Marks)
- (iii) A - A solution of 25 ml water and 25g of sugar
 B - A solution of 25 ml water and 05g of sugar
 C - A solution of 25 ml water and 50g of sugar

Arrange the above mentioned solutions according to the ascending order of densities.

(2 Marks)

- B) Following activity is used to study a physical property of water.

- (i) Which physical property is examined by this activity? (1 Mark)



- (ii) Label P, Q, R and S (2 Marks)

- (iii) The value for that physical property of pure water should be 0°C in the above activity. Mention the reasons for getting a different value than 0°C (1 Mark)

Total = 10 Marks

- 06) Consider the following animals.

Crocodile, Thilapia, Jelly fish, Owl

- i. Which group of animal does Thilapia belong? (1mark)
- ii. Mention 2 special features of above mentioned group (2marks)
- iii. Mention a common feature which belongs for group of Thilapia and Aves. (1mark)
- iv. Name a mammal from above list of animals (1mark)
- v. What is the difference between limits of hearing of above mentioned animal and humans.? (2marks)
- vi. Which group of animals does jelly fish belong? What are the two forms of that group. (3marks)

Total 10 Marks