



JAFFNA HINDU COLLEGE

First Term Exam - 2023

Grade - 08

Science

Time :- 2 Hours

Name/Index No:

Part – I

- ❖ Answer all the questions on the paper itself.
- ❖ Underline the most suitable answer

01) Which is not a bird

1. Owl 2. Bat 3. Penguin 4. Ostrich

02) A non- metal which is conduct electricity

1. Aluminum 2. Silicon 3. Carbon 4. Lead

03) A plant with a leaf arrangement as the image is

1. Vattakkanni 2. Earlaippalai
3. Guava 4. Mango



04) A photosynthetic micro – organism

1. *Chlamydomonas* 2. *Amoeba* 3. *Paramecium* 4. yeast

05) Which of the following response contains only matter

1. Air, Hydrogen, Light 2. Air, Water, Electricity
3. Air, Water, Ice 3. Light, Sound, Electricity

06) A gas jar is filled with nitrogendioxide gas and inverted gas jar containing air is placed over it, mixing of the two gases can be observed. What is the conclusion for the above activity

1. Discontinuous nature of solid matter
2. Discontinuous nature of liquid matter
3. Discontinuous nature of gaseous matter
4. All the above

07) A substance have 2m^3 volume and 2000kg mass. find the density

1. 1000kgm^{-3} 2. 1600kgm^{-3} 3. 4000kgm^{-3} 4. 2000kgm^{-3}

08) Out of the following statements select the most suitable statement regarding micro- organisms

1. These organisms cannot be seen to the naked eye
2. Micro- organisms can't found in hot springs and deserts
3. All the micro- organisms cause harmful effects of human
4. Virus can be observed clearly through microscope

09) If an object vibrates 100 times a second, find the frequency.

1. 50Hz 2. 100Hz 3. 150Hz 4. 200Hz

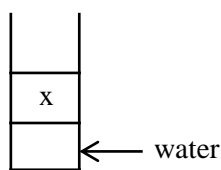
10) Consider the following statements regarding chlorine.

- A) It is a gaseous substance
B) It is a metallic element
C) Greenish yellow color

Which of the above statements are correct.

1. Only A, B 2. Only A, C 3. Only B, C 4. All the above

11) Fill a beaker in half with water and pour the liquid X in the beaker. The diagram show the liquid arrangement in the beaker.



Consider the following statements are regarding this above picture.

- A-liquid X density higher than water
B-liquid X density lower than water
C-liquid X can't mix with water

1. Only A 2. Only B 3. Only A, B 4. Only A, C

12) A metal of low melting point

1. Lead 2. Mercury 3. Iron 4. Ice

13) Special roots of "Rampa" and *Sonneratia* plants in orderly

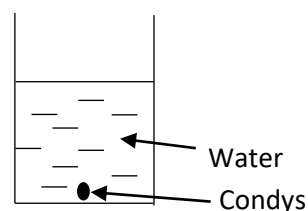
1. Stilt root, Respiratory root 2. Stilt root, Aerial root
3. Prop roots, Respiratory root 4. Prop root, Stilt root

14) Which is the egg laying mammal?

1. Dolphin 2. Emu 3. Kangaroo 4. Platypus

15) Given below is a diagram, where a piece of Condys has been put into a beaker of water.what is the incorrect statement regarding the observation, when this is kept for some time.

1. The colour of Condys spreads in water
2. Condys particles enter into a water particles
3. Condys particle enter throughout water particle
4. Particulate nature of matter can be proved from this activity.



(15 x 2 = 30 marks)

❖ Place the mark (√) if each of the following statements is correct and mark (X) if it is wrong

- 16) Microbial activity on food high in sugars leads to rancidity ()
17) A bacteria causes tuberculosis ()
18) Cnidaria medusa aren't free swimming organisms ()
19) Sugar cane have propagative stem ()
20) Dahila is the plant storage of food in adventitious roots ()

(5 x 2 = 10 marks)

Part – II

(01) The environment around us is composed of matter and energy

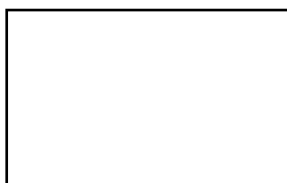
1. Give an example of discontinuous nature of solid matter

.....
(1 mark)

2. Draw the organization of particles in solid liquid, gas



Solid



Liquid



Gas

(1 ½ marks)

3. Define the term of pure substances

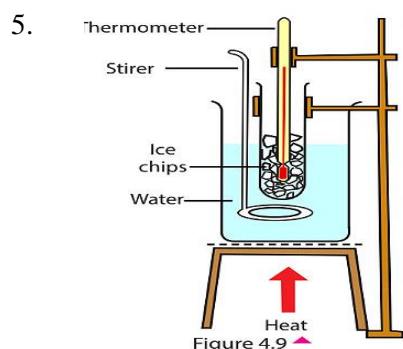
.....
(1 marks)

4. Separate the following elements are metal and Non-metal

(Sulphur, Chlorine, Carbon, Mercury, Zinc)

(1 marks)

Metal	Non - Metal



i. Write the aim of the above activity?

.....
(1 mark)

ii. Heat is supplied the beaker, you would have observed that the temperature remains constant value. Write the reason for it?

.....
.....
(1 mark)

iii. Write the reading for the above (ii) mention stage?

..... ($\frac{1}{2}$ mark)

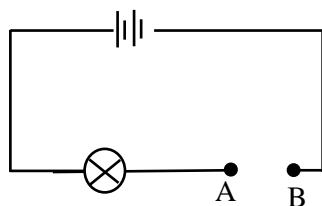
iv. Write the conclusion for the above activity?

..... (1 mark)

v. Write the usage of stirrers

..... (1 mark)

6. A group of grade 8 students set an apparatus to check the properties of metals and non-metal. Diagram of that apparatus is given below.



i. Which property of matter can be tested using the above apparatus?

..... (2 mark)

ii. Write the observation separately when following substance are placed in between terminals A and B

(a) Iron nail -

(b) Carbon rod -

(c) Sulphur -

(d) Copper nail -

(2 mark)

7.

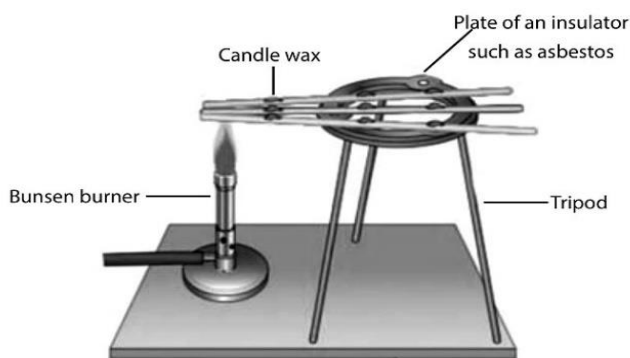


Figure 4.11 ▲ Examine thermal conductivity

a. What is your observation in the above set up ?

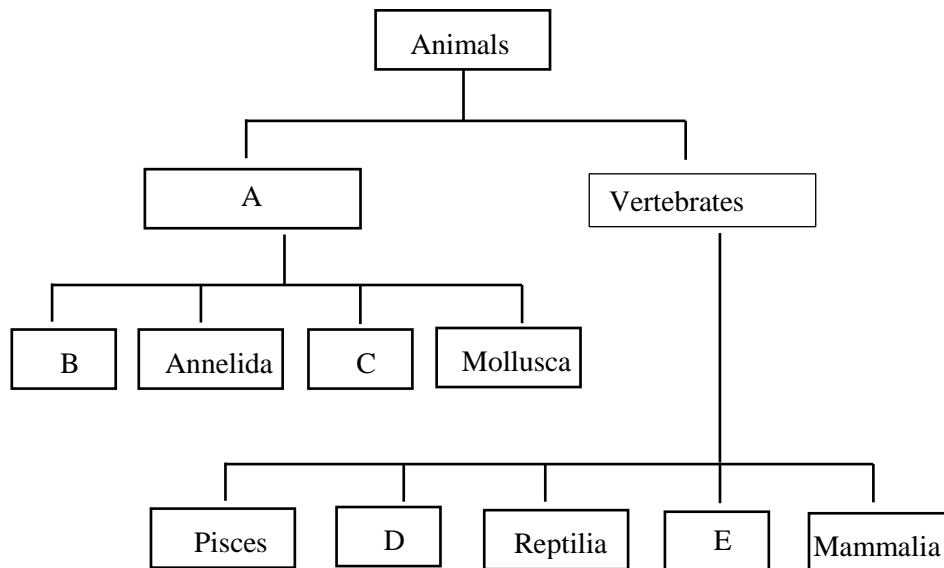
..... (1 mark)

b. What is your conclusion, according to the observation?

..... (2 marks)

(Total = 16 marks)

(02)

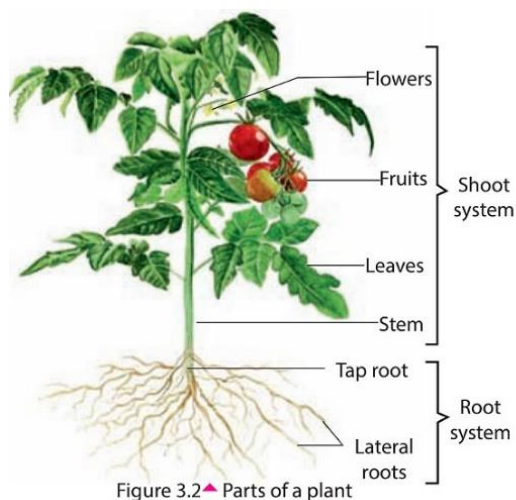


- 1) Name the A
.....
(1 mark)
- 2) The animal B belong to live in water mention the two forms of the animal B?
.....
(2 marks)
- 3) Special tentacles having some of the animals in B group. Write the function of the tentacles?
.....
(1 mark)
- 4) State the respiratory organ of annelida?
.....
(1 mark)
- 5) Mention the locomotive structure of Mollusca?
.....
(1 mark)
- 6) Group C animals have jointed appendages. Write other 2 features of this animal group?
.....
(1 mark)
- 7) Fill in the table

Animal group	Respiratory organ	Habitat
Pisces	Water
D	Water, terrestiral
Reptilia	Lungs

- 8) Group D animals speed part of their life cycle in water. Name the Group D?
..... (1 mark)
 - 9) Name 2 organisms in Group E?
.....(1 mark)
- (Total = 11 marks)

(03) Observed the plant diagram



- 1) Is the plant dicot/monocot?
.....
(1 mark)
- 2) Give the 2 reasons for your above mention (1) answer?
.....
(1 mark)
- 3) is the process of evaporation of water through from plants
(2 mark)
- 4) Give one benefit of the underground stem?
.....
(1 mark)
- 5) What do you mean by adventitious roots?
.....
(1 mark)
- 6) Mention the adaptations for the following arid environment plants to minimize the transpiration.
(a) Cactus..... (b) Oleander.....
(2 mark)
- 7) Some plants have green colour stems such stems are called?
.....
(1 mark)
- 8) Write the function for the above (8) mention stem
.....
(1 mark)
- 9) Give the special function of aerial roots?
.....
(1 mark)

(Total = 11 marks)

(04) Sound, we hear constantly in the environment is produced by vibrating various things.

1) Mention the three types of sources of sound?

.....
.....

(3 marks)

2)

(a) Sound be changed by the way of vibrating the different 2 strings?

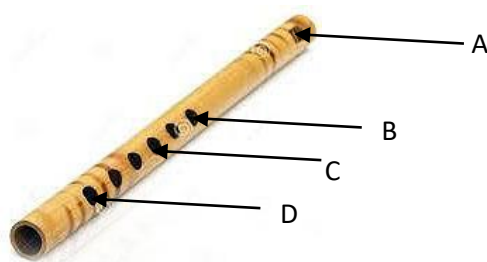
.....
.....

(1 marks)

(b) State the above mention different create the character of strings?

.....

(1 mark)



3) Which hole Opened to produce the high frequency of sound above mention picture.

.....

(1mark)

4) Define the term of music

.....

(1 mark)

5) Give the reason for production of noise?

.....

(1 mark)

6) Name the animal which can hear the sounds of the frequency more than 20000Hz?

.....

(1 mark)

7) Write the low frequency of sound that human ear can hear?

..... (1 mark)

8) Name the part that vibrates when the following animals sounds are produced

- a. Bees –
- b. Grass hopper –

(1 mark)

(Total = 11 marks)

(05) Micro- organisms are found in all environments such as atmosphere, water, soil in and on living organisms including hostile environments.

1. What do you mean by micro-organisms?

.....
(1 mark)

2.

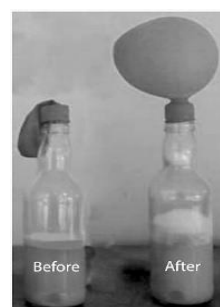
i. Mention the invention which is exploration of micro-organism was possible?

.....
(1 mark)

ii. Who is the scientist invented for the above (i) invention?

.....
(1 mark)

3. Add the yeast into the sugar solution, then pour a newly prepared solution into the bottle and fix a balloon to the mouth of the bottle.



i. What are the observation can be taken after 20 minutes?

.....
(2 marks)

ii. Name the gas collected in the balloon?

.....
(1 mark)

iii. Write the observation for freely moving balloon?

.....
(1 mark)

iv. Write the reason for the above mention (iii) activity of balloon?

.....
(1 mark)

4. Write 2 factors that contribute to microbial activities?

.....
(1 mark)

5. Fill in the following table

Micro-organism	Infectious diseases
Virus	
Bacteria	
Fungi	
Protozoa	

(2 marks)

(Total = 11 marks)



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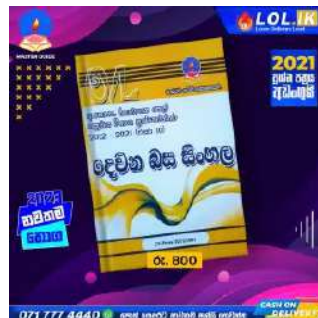
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