



2023. 08 .09-Friday  
08.00 - 10.00

**Km/Km/Carmel Fatima College National School, Kalmunai**

**Second Term Examination – 2024**

**Grade: 8 Science 2 Hours**

GRADE; 08: C A R M E L T (Circle your Class)

Index No : .....  
Certify correct  
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*Invigilator signature*

Final Marks

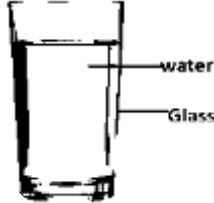
Question		Marks	
Part I	20	20	
Part II	1	20	
	2	20	
	3	20	
	4	20	
Total		100	

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*Parent Signature*

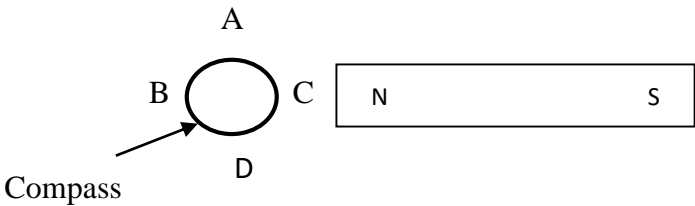
**Part I**

**Underline the most suitable answer.**


- A group of animals with a vertebral column is  
1) Cnidaria      2) Reptilia      3) Mollusca      4) Arthropoda
- A disease caused by a virus is  
1) Polio      2) Tuberculosis      3) Typhoid      4) Pityriasis
- The function of aerial root is  
1) Storage of food      2) Respiration  
3) Production of food      4) Absorb air from the atmosphere
- By whom was the nature of matter first put forward  
1) Aristotle      2) Newton      3) Democritus      4) Tholami
- Which of the following non metal is lustrous  
1) Glass      2) Gold      3) Silver      4) Copper
- A sound is produced by tapping on the upper part of a glass with palm. Here vibration takes place in the  
1) Water      2) Air      3) Glass      4) Wind



7) What direction is indicated by holding a compass near a bar magnet shown in the picture



- A
- B
- C
- D

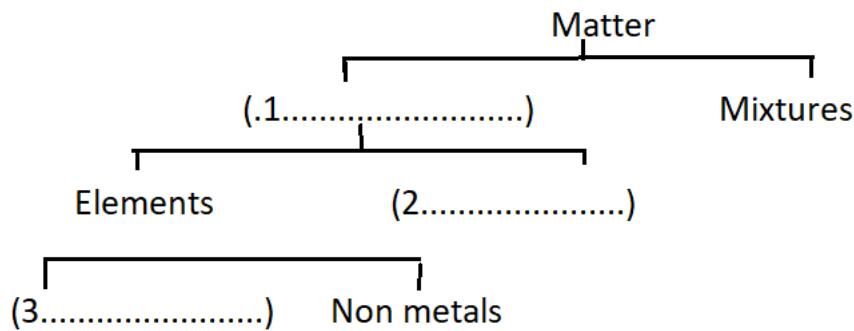
- 8) The smallest unit used to measure electric current is  
 1) A                      2) kA                      3) mA                      4)  $\mu$ A
- 9) Which of the following is a chemical change?  
 1. Addition of sugar in water  
 2. Addition of Iron rod in water  
 3. Addition of salt in water  
 4. Addition of condensation
- 10) The food that undergoes putrefaction is  
 1) Coconut oil              2) Yoghurt              3) Meat                      4) Flour
- 11) Which is not found in Arthropoda  
 1) Jointed appendages                      2) Wings  
 3) Radial symmetry                      4) Segmented body
- 12) In which plant, leaves are turned into thorns  
 1) Lemon                      2) Rose                      3) Aloe                      4) Cactus
- 13) The equipments used to measure density are  
 a) Density bottle                      b) Triple beam balance  
 c) Newton balance                      d) Measuring tape  
 1) a,b                      2) a,b,c                      3) a,c,d                      4) All
- 14) What is measured by the unit Hz  
 1) Number of vibrations in one minute.  
 2) Number of vibrations in one hour.  
 3) Number of vibrations in one second.  
 4) Number of vibrations in an object.
- 15) The instance where electro magnet is used  
 1) Electric bell              2) Refrigerator              3) Bicycle dynamo              4) Television
- 16) This symbol is related to  
 1) Electric bulb              2) Capacitor  
 3) Resistor                      4) Switch
- 
- 17) Which is not an evidence for chemical change  
 1) Melting                      2) Precipitation                      3) Evolution of gas                      4) Explosion
- 18) The factors in fire triangle  
 1) Fire, Oxygen, Fuel                      2) Heat, fire, Oxygen  
 3) Fuel, Carbon dioxide, Oxygen                      4) Heat, Oxygen, Fuel
- 19) The factors involve in rusting of iron are  
 1) Carbon dioxide, Oxygen                      2) Oxygen, Water  
 3) Carbon dioxide, Water                      4) Cotton, Water vapour, Oxygen
- 20) A plant with climbing stem  
 1) Mango tree              2) Lemon                      3) Maramanjil              4) Cactus

(1x20=20Marks)

**Part II**

01)

A) i) Fill in the blanks. (3marks)



ii) What is meant by the term “matter”?

.....(1Mark)

iii .What is the statement of Aristotle about the nature of matter?

.....(1Mark)

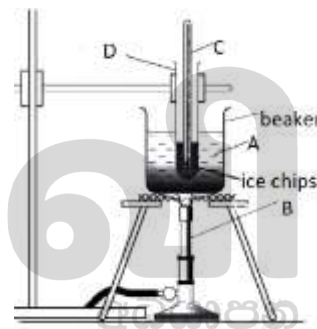
iv .Write two properties of non metals.

.....  
 .....(2marks)

B) When Ravi and Meena went to the laboratory they saw the Experiment set up shown here.

i.Name the parts A, B, C & D.

- A.....
- B.....
- C.....
- D..... (2marks)



ii.Which property of ice is tested in this experiment?

.....(1Mark)

iii.Initial reading of equipment “C” is -4°C. Write two observations when it reaches 0°C.

.....(1Mark)

iv.What will you observe in equipment “C” when equipment “B” works continuously for more than five minutes.....(1mark)

C) Meena removed the equipment “D” from the experiment set up and measured the mass of water. This mass of water was equal to the mass of ice.

i. What is density? (2marks)

.....

ii. Write two factors that influence the density? (2Marks)

.....

iii. Ice cubes float on the water.What is the reason for this?

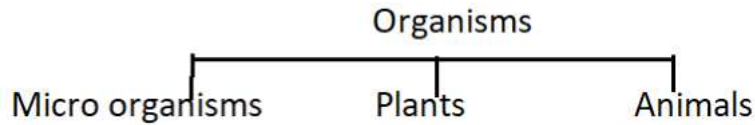
.....(1mark)

iv.The mass of empty density bottle is20g.Volume is 5ml. After filled with a liquid, the mass of density bottle is 26g. What is the density of this liquid?

..... (3Marks)  
 (20Marks)

02)

There was a chart in the laboratory, that showed as follows..



A)

i. What is micro organism?

..... (1Mark)

ii. Write two factors required for microbial activity.

.....(2Marks)

iii. Write four beneficial effects of micro organism. (2marks)

1).....2).....

3).....4).....

iv. Write two problems caused by micro organisms. (2Marks)

1. .... 2. ....

B) It is easy to study about animals by classifying them, based on different criteria.

i. What is animal classification?

(1mark)

.....

ii. Write the names of four vertebrate groups.

(2marks)

1) ..... 2).....

3)..... 4).....

iii. Name the group that bears each of the features given below.

i. Have wings .....

ii. Have mammary glands.....

iii. Muscular foot.....

iv. Jointed appendages.....

v. Streamlined body.....

vi. Segmented worms.....(6Marks)

C) Plants in our environment show an enormous diversity as Animals.

i. Name the parts A, B, C and D.

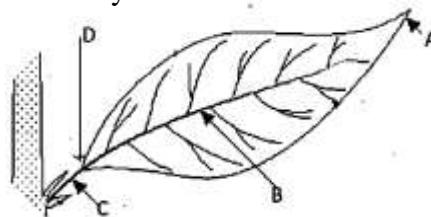
(1Mark)

A.....

B.....

C.....

D.....



ii. What is the main function of leaf?

(1mark)

.....

iii. What is the benefit plants get by the diversity in leaf arrangement?

(1Mark)

.....

iv. The plants with many leaves are affected in arid environment. What is the reason for this? (1Mark)

.....

(20Marks)

03)

A) demonstration is done in a laboratory by tearing a paper into small pieces and burning another piece of paper.

i. What is meant by physical change? (1Mark)

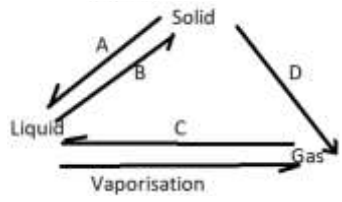
.....

ii. What type of change is tearing the paper? (1Mark)

.....

iii. Name A,B,C & D. (4Marks)

- A.....
- B.....
- C.....
- D.....



iv. Write four examples for chemical reaction. (4Marks)

.....  
 .....

B) Two iron coils A & B were hung from the two ends of a meter ruler in a balanced position. Then iron coil "B" is burned.

i. What will you observe here? (1Mark)

.....

ii. Which type of change is this? (1mark)

.....

iii. Which law is tested by this set up? (1Mark)

.....

iv. Define the law that you mentioned above. (2Marks)

.....

v. Why this set up failed to test this law? (1Mark)

.....



C) Two types of burning can occur while burning an object.

i. What is the reason for the incomplete combustion? (1Mark)

.....

ii. Write two products of complete combustion. (2Marks)

.....

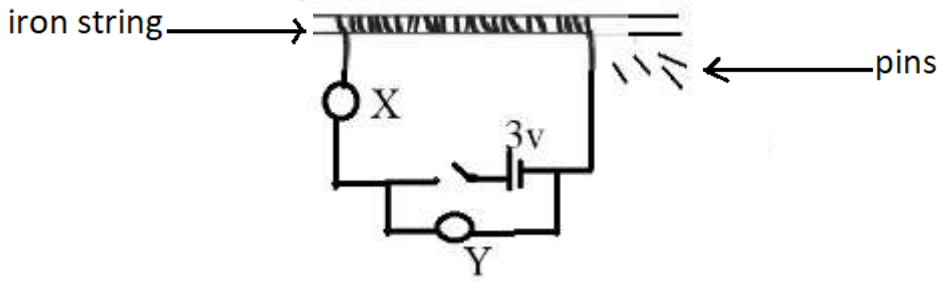
iii. Which combustion gives more heat than the other. (1Mark)

.....

(20marks)

04)

A) Meena made a set up with thin iron string & copper wire.



- i. Identify the equipments X & Y. (2Marks)  
.....
- ii. How is the equipment X connected with the circuit? (2marks)  
.....
- iii. What do you mean by the term electric current? (2Marks)  
.....
- iv. What will you observe when you close the switch ? (2Marks)  
.....
- v. If the iron rod acts as a magnet, what sort of magnet is this? .....(1Mark)
- vi. What should be done to increase the power of this magnet? .....(2Marks)
- vii. What is the change that should be done to make it as a permanent magnet here? (2marks)  
.....
- viii. Write two instance where the magnet loses its magnetic power?  
.....(2Marks)

B)When the current is given to string it produces sound.

- i.How is the sound produced? (2marks)  
.....
  - ii.How do you call the rhythmic sound? ..... (2Marks)
  - iii.What type of instruments produce sound by vibrating string?  
.....(1Mark)
- (20Marks)

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