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மாகாணக் கல்வித் திணைக்களம் - வட மத்திய மாகாணம்
DEPARTMENT OF EDUCATION – NORTH CENTRAL PROVINCE

SECOND TERM TEST - 2019

Grade 8

SUBJECT - **Science**

School : .....

Name of the Student/ Index No : .....

.....

Time : **2 ½** hrs.

Part I

- **Answer all the questions.**
- **Underline the most suitable answer.**

01. Chili plant with leaf curled disease is caused by,

1. Bacteria 2. Fungi 3. Virus 4. Protozoa

02. Show bilateral symmetry and Vermiform. Body is divided into segments. Example for an animal that shows above features is,

1. Hydra 2. Octopus 3. Centipede 4.Nereis

03. The main function of plant leaves is,

1.Transpiration 2. Photosynthesis 3. Store foods 4. guttation

04. The lowest temperature at which a liquid turns in to a gaseous state is,

1. Melting point 2. Boiling point 3. Freezing point 4. Condensation

05. Unit that used to measure frequency.

1.m 2.H 3. K 4. N

06. An element,

1. Water 2. Kerosene oil 3. Coconut oil 4. Mercury

07. Area that the magnetic power is spread around a magnet is called,

1. Magnetic pole 2. Magnicfield 3. Magnetic field line 4. Magnetism

08. Not a reason for loosing magnetic power,

1. Being subjected to high temperature
2. Being subjected to strong magnetic field.
3. Being subjected to vibrations
4. Usage of the magnet frequently

09. Example for a physical change is,

1. Vaporization 2. Rusting of iron 3. Lightning a match 4.Burning of magnesium

10. Excretory product that contains nitrogenous by-product is,

1. Water 2. Urea 3.Carbon dioxide 4.Waste matter remaining after food digestion

11. Entering of heavy metals and toxic chemicals in to the body causes,

1. Pityriasis 2. Kidney stones 3. Kidney failure 4. Constipation

12. Vitamin that is produced by the cells of the skin,

1. Vitamin A 2. Vitamin B 3. Vitamin C 4.VitaminD

13. Not an adaptation of plant leaves in arid environment to minimize transpiration,

1. The cuticle in plant leaves
2. Leaves reduce to spines
3.Broad leaf blade
4. Leaves turn into scale leaves

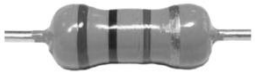
14. A plant that stores food in lateral roots is,

1. Sweet potatoes 2. Radish 3. Beetroots 4. Carrot

15. An organism that belongs to the group reptilian,

1. Shark 2. Salamander 3. Whale 4. Turtle

16. The component in the figure is



1. fixed resistor
2. Variable resister
3. Rheostat
4. Light dependent resistors

17. The power of an electro – magnet is increased due to,

1. The number of turns in the coil
2. When decreasing the electric current flowing through the coil
3. When there is a non conducting medium as the core of the coil
4. by light dependent resistors

18. A main function of cerebrospinal fluid is,

1. Preventing the central nervous system from microbial infections.
2. Keeping the interaction between cerebrum and spinal cord.
3. Keeping erect the spinal cord
4. Sending massage to central nervous system that gain from various organs

19. The set of instruments that is used only for finding the density of liquid.

1. Density bottle, Triple beam balance 2. Density bottle, Distilled water, Triple beam balance
   Density bottle, Triple beam balance, Filter papers
   Density bottle, Distilled water, Triple beam balance, Filter papers

20. Choose the electrical appliance that does not use electromagnets,

1. Electric motor 2. Heater 3. Electric fan 4. Electric drill

(20x 20 = 40 marks)

Part - II

- **Answer the first question and four other questions.**

1)A Various parts of a plant contribute to the existence of it.

I. What is the main function of a plant leaf?

……..... (01 marks)

II. Write 2 adaptations of plants to minimize the transpiration.

…….....

……..... (02 marks)

III. Name two adventitious roots and give one example for each type of root.

Type of root	Example
1……	…….....
2……	…… (02 marks)

B. I. There are 3 states of matter in regard to the physical arrangement. What are they?

1 ……

2 ……

3 …… (03 marks)

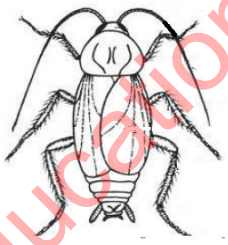
II. Define the density

…….....

.....

.....……..... (03 marks)

2.



A Figure shows an invertebrate animal.

I. What is the group this invertebrate belongs to? (02 marks)

II. Name 2 features of this group. (02 marks)

III. Name 2 examples for group of animals that use gills for respiration, poses eyes without eye lids. (02 marks)

IV. Name 2 mammals that live in marine water (02 marks)

B

I. Name a type of micro – organism that causes food spoilage. (02 marks)

II. Name 2 factors affect the growth of above mentioned organisms (02 marks)

III. Name 2 industries done using yeast (02 marks)

03.If the statements are correct put "✓" and if incorrect put"✗" in brackets.

I. Substances that have mass and occupying a space are known as matter ( )

II. Gaseous substances have definite shape and definite volume. ( )

III. Oxygen and zinc are examples for compound. ( )

IV. Brittleness is a feature of metal. ( )

V. Solids and liquids have high density and gasses have less density. ( )

VI. Mercury is the liquid metal that carries electricity. ( )

VII. Sulpher is a heat and electricity conducting metal. ( )

VIII. Thermometer has been produced using the physical property of expansion. ( )

IX. Area that the magnetic power is spread around a magnet is called the magnetic field of the magnet. ( )

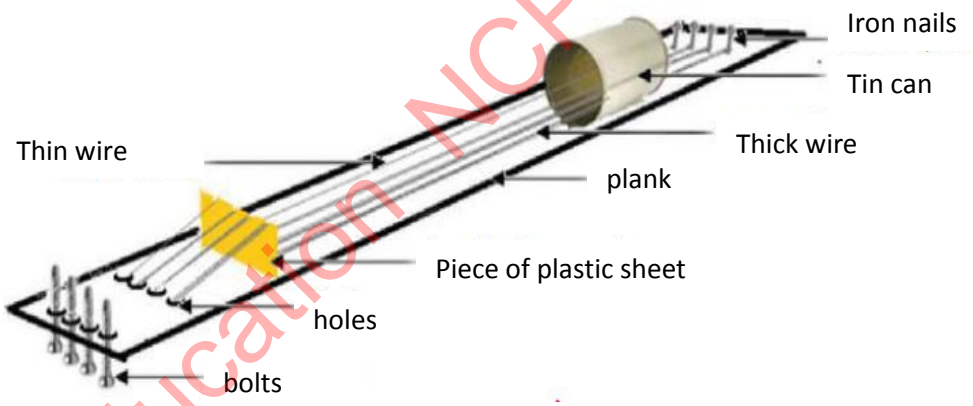
X. Sodium chloride is a pure substance. ( )

XI. The melting point is the fixed temperature that turns solid in to liquid. ( )

XII. The instruments with bimetallic strips are produced using the feature of expansion of matter ( )

(1x 12 = 12 marks)

04. The following figure shows a musical instrument made by students.



A. I. What is the way of producing sound by the above instrument? (02 marks)

II. Write 2 changes can be done to the above instrument to get a sharp sound. (02 marks)

III. Name a traditional musical instrument and a modern musical instrument separately (02 marks)

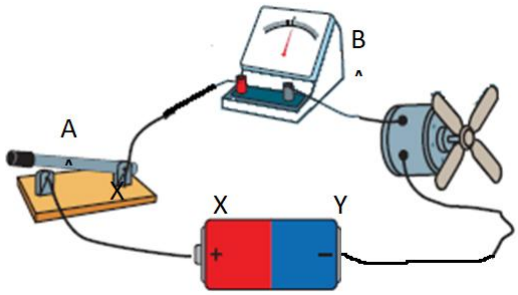
IV. What is meant by "audible range"? (02 marks)

B. I. Mention 2 physical properties of the strings in the above musical instrument. (02 marks)

II. What is the word used for nature of matter exist as a collection of particles with spaces among them? (02 marks)

III. Write an activity to show above mentioned nature of solid matter. (Explain in 3 steps) (03 marks)

05. The following figure shows the electric motor act by using two dry cells.



A. I. (a). Positive and negative terminals of the dry cells are indicated by x and y. Name them correctly (02 marks)

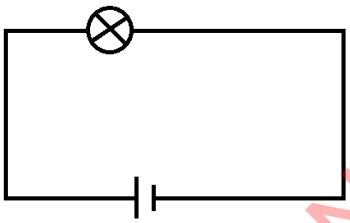
(b). "A " component is used to control the electric current and "B" is used to measure the electric current. Name A and B (02 marks)

II. What is the observation in B when changed the terminals of the dry cells? (01 marks)

III. Mention the symbol and SI unit of electric current separately. (02 marks)

IV. Show the way of connecting a voltmeter to measure the voltage of a bulb in the following figure.

B.

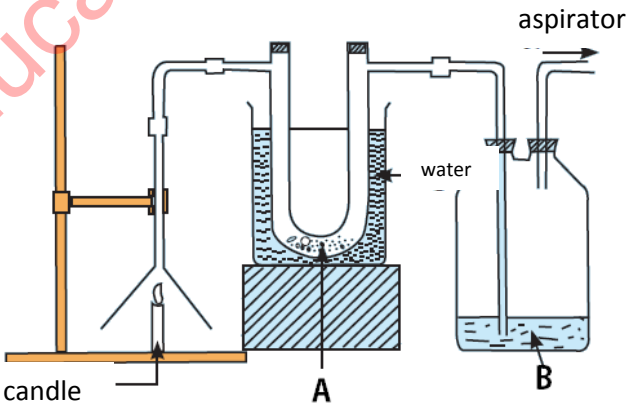


I. You are provided with 03 day cells, a torch bulb, a switch and connecting wires. Draw the circuit figure by connecting the bulb, switch and 03 dry cells in series connection (02 marks)

II. Name 2 electrical appliances that generate heat using heating effect of electric current. (02 marks)

III. Name 2 applications of electroplating in day-to- day life (02 marks)

06



The above apparatus is used to identify the products formed during the combustion of fuels

I. Complete the following table. (04 marks)

	A	B
Chemical used	a.....	b .....
Observation	c	d.....

II. Write the function of aspirator shown in the diagram. (02 marks)

III. Fill in the blanks in the following table (03 marks)

Type of fuel	Example for fuel
a	Firewood
Liquid fuels	b.....
c	Liquid petroleum gas

III. Write factors needed for combustion (03 marks)

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