

Grade - 8	First Term Test - 2019	34	T
-----------	------------------------	----	---

Index No.	Science	Time : 2 Hours
----------------	---------	----------------

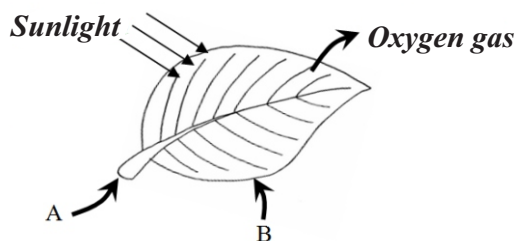
Instructions : <ul style="list-style-type: none"> • Answer all the questions on the paper it self. • 1 mark is allocated for each.

PART I

- ***Underline the most suitable answer from question number 1 to 25.***

- What is the name of the microbial activity based on foods like fish and meat ?
 1. Rancidity 2. Fermentation 3. Putrefaction 4. Food spoilage
- An example for a plant which is adapted to absorb atmospheric water vapour is,
 1. Anthurium 2. Kirala 3. Beduru 4. Orchid
- Plant leaf that helped to water conservation and propagation is,
 1. Aloe 2. Akkapana 3. Ginger 4. Gotukola
- A plant which stored food in aerial stem is,
 1. Kithul 2. Banana 3. Carrot 4. Potato
- What is the correct answer that shows radially symmetrical and bilaterally symmetrical animals in order ?
 1. Hydra, Sea anemone 2. Scorpion, Sea anemone
 3. Jelly fish, Prawn 4. Sea anemone, Jelly fish
- The non - observable microorganism group under light microscope is,
 1. Bacteria 2. Fungi 3. Protozoa 4. Virus
- What is the group of animal which shows both forms of polyps and Medusa ?
 1. Annelida 2. Cnidaria 3. Mollusca 4. Arthropoda
- A harmful effect of the microorganism is,
 1. Decompose dead plant and animal matter
 2. Control pests
 3. Used in bakery products
 4. Cause adverse effects on economy because of the fungal growth on the surfaces of objects
- The factors which can be considered as the factors that control the functioning of microbials on the foods keep in the refrigerator are,
 1. Temperature and Light 2. Light and Moisture
 3. pH value and Temperature 4. Moisture and Temperature
- The elements of the carbondioxide are,
 1. Hydrogen and Carbon 2. Carbon and Oxygen
 3. Hydrogen and Nitrogen 4. Hydrogen and Chlorine
- The mass of a unit volume of a given substance is,
 1. Weight 2. Density 3. Pressure 4. Melting point

- 12) The answer which containing both element and compound is,
 1. Sulphur and Water
 2. Water and Ammonia
 3. Salt and Water
 4. Sulphur and Carbon
- 13) A physical property that can be used to determine the purity of a solid is,
 1. Boiling point
 2. Colour
 3. Conductivity
 4. Expansivity
- 14) When hammered a piece of sulphur after putting into a cloth bag, was broken in to small particles. The physical property of sulphur could be,
 1. Ductility
 2. Malleability
 3. Brittleness
 4. Elasticity
- 15) The states of the matter with high density are,
 1. Only soild and gas
 2. Only liquid and gas
 3. Only soild and liquid
 4. All soild , liquid and gas
- 16) Which one hasn't a constant composition,
 1. Iron
 2. Air
 3. Magnesium
 4. Hydrogen
- 17) The diagram shows the outline of a leaf that occurs photosynthesis.



A and B respectively are,

1. Carbondioxide and Chlorophyll
 2. Water and Carbondioxide
 3. Water and Chlorophyll
 4. Carbondioxide and Water
- 18) What is the correct answer of the following statements on the mass of the equal volume of water and salt ?
 1. The mass of the salt and water are equal.
 2. The mass of the salt is less than the mass of water.
 3. Two masses are different each other.
 4. The mass of the salt is greater than the water.
- 19) The non - metal with electrical conductivity is,
 1. Carbon
 2. Mercury
 3. Sulphur
 4. Lead

- 20) A plant with a leaf arrangement as the image is,
 1. Guava
 2. Rukkaththana
 3. Anona (katu anoda)
 4. Kuppamenia



- 21) Here are some observations on the melting point of a liquid.
 A. Soild become liquid.
 B. Temperature is gradually increased.
 C. Temperature does not changed.

What can be the correct observations ?

1. A and B
 2. B and C
 3. A and C
 4. All A,B and C

22) Mercury is used as a liquid in thermometers. Here are some statements made by a student about mercury.

- A. It is a pure substance.
- B. It is a non - metal.
- C. It expand , when heated.

The correct statements from the above are,

- 1. Only A and B
- 2. Only B and C
- 3. Only A and C
- 4. All A,B and C

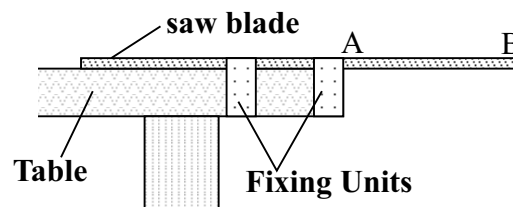
23) Some of the statements about musical tones are given below.

- A. It will never be oppressive.
- B. It will be rhythmical play or songs.
- C. It is used to promote the quality of life.

The correct statements from the above are,

- 1. A and B
- 2. B and C
- 3. A and C
- 4. All A,B and C

24) What is the correct statement about the noise made by the saw blade when applying a force at the B end and when gradually increase the AB length ?



- 1. Does not Change the sound.
- 2. Gradually increased the sound.
- 3. Noise decreases and then increases.
- 4. The sound will gradually diminish and become silent.

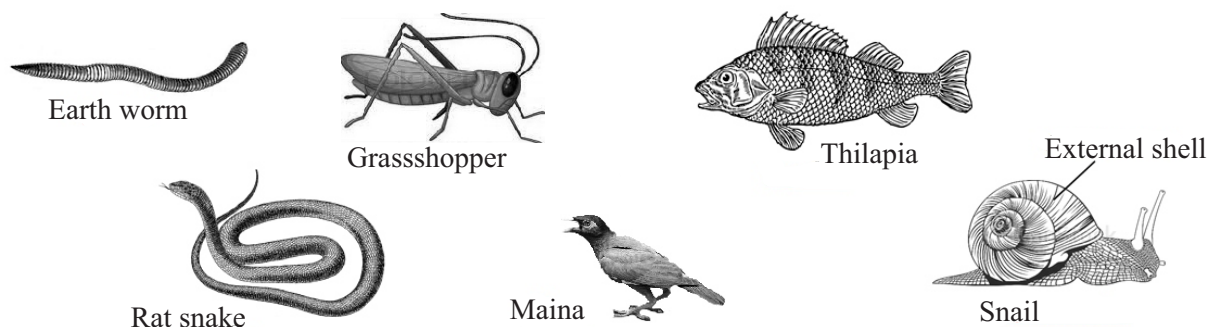
25) What is the correct answer only with matters ?

- 1. Water, Air, Dust
- 2. Water, Heat, Air
- 3. Sound, Water, Dust
- 4. Water, Dust, Light

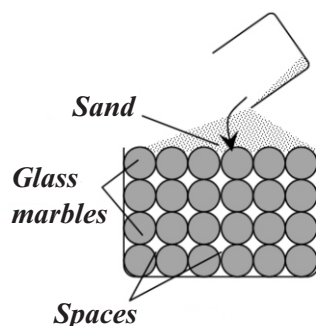
Part II

- * Answer only five questions.
- * 12 marks for each question.
- * Use extra papers to answer the questions.

01) Below diagrams show some animals which are used for animal classification.

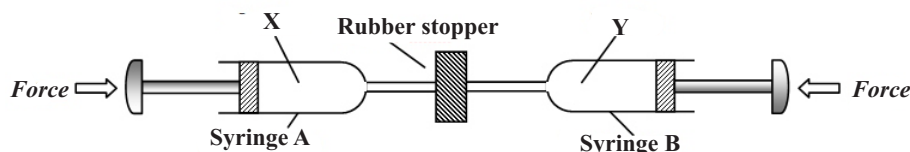


- i. Earthworm and Rat snake are classified into two main groups. What is the main internal character used for that? (01 mark)
 - ii. Snail belongs to the group mollusca.
 - a) Which is the character that can be observed in some organisms of that group as in the figure? (01 mark)
 - b) Name an organism belongs to Mollusca which is not having above character. (01 mark)
 - c) What is the locomotive organ of the snail? (02 marks)
 - iii. Rat snake is a vertebrate which is well adapted for the terrestrial environment .
 - a) What is the class that rat snake belongs to? (01 mark)
 - b) Write other common characteristic of above class except having lungs for gas exchange. (01 mark)
 - iv. The animals of the group which earthworm is belonged to is named as segmented worms.
 - a) What is the reason for naming them as " segmented worms " ? (01 mark)
 - b) Write an importance of living that creature in a crop - land? (01 mark)
 - v. Select the animals from above for following characters.
 - a) Segmented body with jointed appendages (01 mark)
 - b) Gills for respiration (01 mark)
 - c) Forelimbs are modified into wings (01 mark)
02. (A) Experiment is given below to study about the structure of a matter. Structure of the matter is shown by the glass marbles in the beaker.



- i. What is the part of the matter represented by glass marbles? (01 mark)
- ii. What is the physical state of this matter according to the arrangement of the glass marbles? (01 mark)
- iii. Write an observation which can be obtained by this activity. (01 mark)
- iv. Write the conclusion which can be obtained through the above observation. (02 marks)

(B) Physical properties of the matter can be varied with the structure of the matter. Experiment given below is designed to study about a physical property of matter and observations are mentioned below. X and Y both have the ability to flowing.

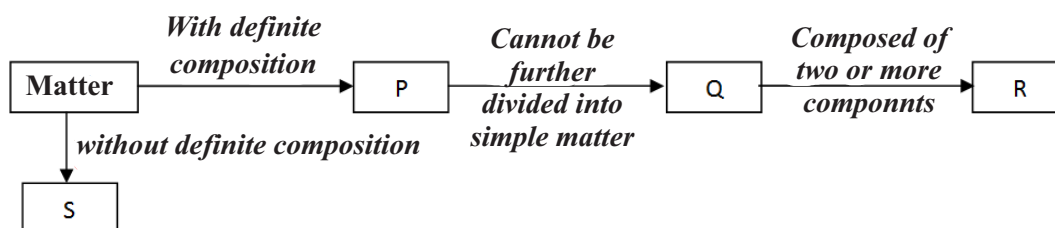


Activity	Observations of A	Observations of B
Applying same forces for both pistons	Location of piston does not change	piston is entered in to the Syringe

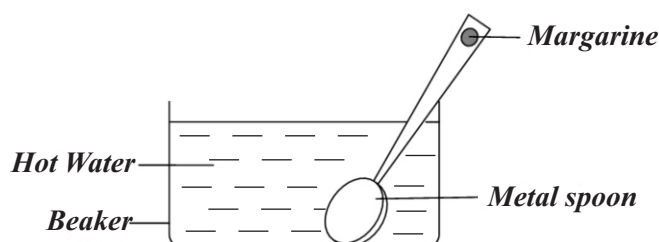
- i. Write examples for the things which is used for X and Y (02 marks)
- ii. a) Explain the reason for the observations of B (02 marks)
b) Write a property of that matter according to the above reason. (01 mark)
- iii. Write an equal physical property of X and Y except the ability to flowing. (02 marks)

03. (A) The concept map which is used to classify the matter is given below.

- i. Use the most suitable words for P, Q, R and S (04 marks)

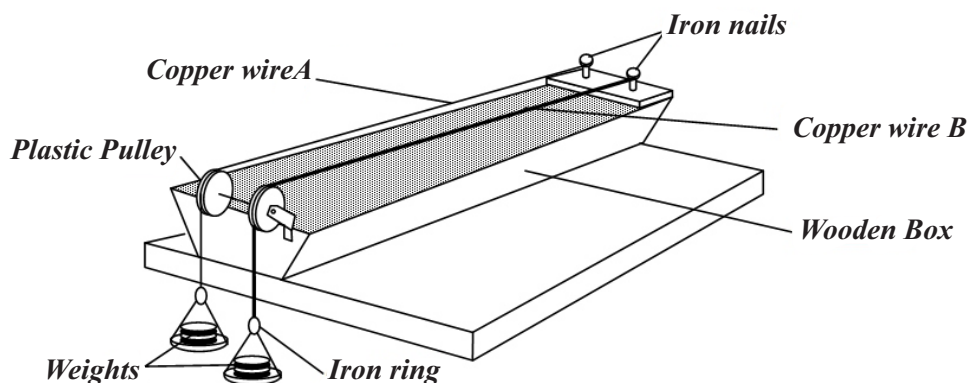


(B) Below experiment has designed to show a physical property of a metal.



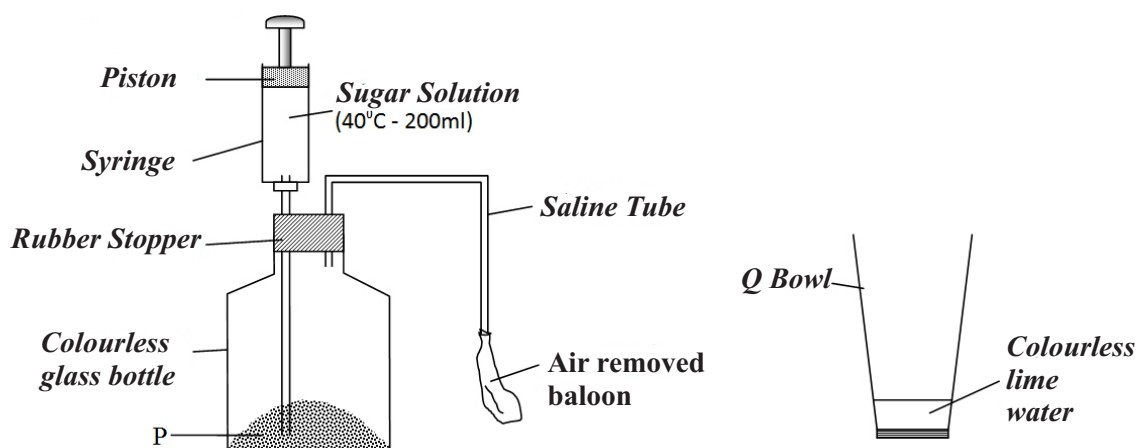
- i. What is the observation can be taken after few minutes? (01 mark)
- ii. Mention the reason for the above observation. (01 mark)
- iii. What is the physical property of metal spoon shown by this activity? (01 mark)
- iv. What is the main physical property of margarine which is used to obtain above observation? (01 mark)
- v. What is the observation when using coconut-shell spoon instead of metal spoon? (01 mark)
- vi. What is the reason for above observation in part "V"? (01 mark)
- vii. What is the elemental composition of water? (02 marks)

04. Following is an instrument prepared for an exhibition .



- i. What is the type of the instrument according to the method of producing sound? (01 mark)
- ii. a) What is the letter of the wire which should be vibrated in order to get a sharp sound? (01 mark)
b) Write the physical property of the wire that helped to give the above result. (01 mark)
- iii. It can be changed the sound by drawing the wire B. Write down a method which can be done to do that. (02 marks)
- iv. Write down ,
a) Two elements (02 marks)
b) Two non- metals (02 marks)
which have used to made this instrument.
- v. What is the physical property of the iron which helped to create iron rings? (01 mark)
- vi. Mention the other two ways that can be used to produce the sound except the above way. (02 marks)

05. (A) The following diagram shows a gadget created by a student at home in order to observe the microbial activity on food.



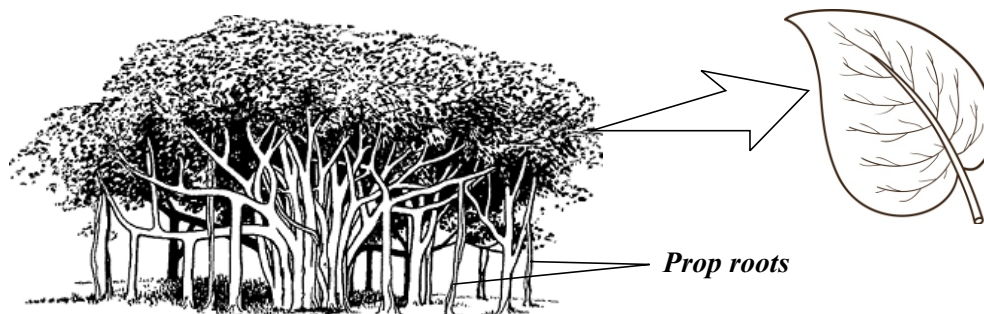
- i. What is the microbial group used as "P"? (01 mark)
- ii. What is the procedure which can be taken to enter the sugar solution in to the bottle? (01 mark)
- iii. What is the method used by the student to speedup the microbial activity? (01 mark)
- iv. Mention the observations of the followings after few minutes.
a) Inside the bottle.
b) of the balloon. (02 marks)

- v. After removing the balloon, saline tube was inserted in to the lime water.
 - a) What could be the observation? (01 mark)
 - b) What could be the released gas according to the above observation? (01 mark)

(B) Microbes affect well and adversely for both man and human activities.

- i. Among the changes of the foods due to microbial activity,
 - a) Write a change that can be observed.
 - b) Write a change that cannot be observed. (02 marks)
- ii. Mention the group of pathogen which caused following diseases.
 - a) Amoebiasis.
 - b) pityriasis (02 Marks)
- iii. Write a beneficial effect of micro - organisms in medicinal field. (01 mark)

06. (A) Following is a banyan tree.



- i. What could be the root system of this plant among the two main root systems? (01 mark)
- ii. Write a characteristic which can be used to determine the above answer with the help of the image. (01 mark)
- iii. What is the function of prop roots to the plant for the plant given by the prop roots? (01 mark)
- iv. Write down a name of an adventitious root except prop root and mention the function of it. (02 marks)
- v. These plant leaves have thick and shiny surfaces.
 - a) Name the process which can be minimized through this adaptation. (01 mark)
 - b) Write any other adaptation of plants shown to minimize the above mentioned process. (01 mark)

(B) Following are some of the plants identified by the students.

(Carrot, Ginger, Sweet potato, Kithul, Rose, Cactus, Akkapana, Curry leaves)

Give one example for each of the following among the above plants.

- i. Stored foods in the tap root. (01 mark)
- ii. Stored foods in the underground stem. (01 mark)
- iii. Plant which adapted to perennation. (01 mark)
- iv. Stored water in the stem. (01 mark)
- v. Plant which done propagation by roots. (01 mark)

Provincial Department of Education - NWP
First Term Test - 2019
Grade . 08 - Science
Answer Sheet

PART I

Q.No	Answer	Q.No	Answer	Q.No	Answer	Q.No	Answer	Q.No	Answer
1	3	6	4	11	2	16	2	21	3
2	4	7	2	12	1	17	2	22	3
3	2	8	4	13	1	18	4	23	2
4	1	9	4	14	3	19	1	24	4
5	3	10	2	15	3	20	2	25	1

PART II

- 01) i. With back bone or without backbone. (01)
 ii. a - External shell / Antenna (01)
 b - Slug / Octopus / Cuttle - fish (01)
 c - Muscular foot (02)
- iii. a - Reptelia / Reptiles (01)
 b - Dry skin with scales and without glands or for suitable answer. (01)
- vi. a - External segmentation of the body (01)
 b - Aeration of the soil due to dug holes / Increase the soil quality due to the fertilizer of earthworms. (01)
- v. a - Grasshopper (01)
 b - Thilapia (01)
 c - Maina (01)
 (12 marks)
02. (A) i. Particles (01)
 ii. Solid state (01)
 iii. The sand dust go in to the pores. (01)
 iv. Praticulate nature / Particle nature / The matter consist with particles and spaces within them. (02)
- (B) i. An example of a liquid for "X". (01)
 An example of a gas for " Y" (01)
 ii. a- A large space among particles (02)
 b- Compressibility (01)
 iii. Not a definite shape (02)
 (12 marks)
03. (A) P - pure substances (01)
 Q - Elements (01)
 R - Compounds (01)
 S - Non pure substances / Mixtures (01)
- (B) i. Melting margarine (01)
 ii. Margarine get the heat comes along the spoon. (01)
 iii. Thermal conductivity (01)
 iv. Melting the margarine when get heat. (01)
 v. Does not melt the margarine. (01)
 vi. Poor thermal conductor (01)
 vii. Hydrogen and oxygen (02)
 (12 marks)

04. i. Vibrating strings (01)
 ii. a) - A (01)
 b) - Low thickness of the string (01)
 iii. Replace the weights or add new weights (02)
 iv. a - Copper and Iron (02)
 b - Plastic and wood (02)
 v. Ductility (01)
 vi. Vibrating membranes and vibrating air (02)
 (12 marks)
05. (A) i. Yeast (01)
 ii. Press the piston downwards (01)
 iii. Used a sugar solution with 40°C (01)
 iv. a - Forming white foams (01)
 b - Puffup the balloon. (01)
 v. a - Become mmilky colour. (01)
 b - CO₂ (01)
- (B) i. a - Colour / Texture / Smell / Taste (01)
 b - Nutritional value (01)
 ii. a - protozoa (01)
 b - Fungi (01)
 iii. For the suitable answer (01)
 (12 marks)
06. (A) i. Tap root system (01)
 ii. Branching the stem / Reticulate venation (01)
 iii. Act as an aid to branches (01)
 iv. Suitable answer (02)
 v. a - Transpiration (01)
 b - Suitable answer (01)
- (B) i. Carrot (01)
 ii. Ginger (01)
 iii. Ginger (01)
 iv. Cactus (01)
 v. Curry leaves (01)
 (12 marks)

