



Minuwangoda Education Zone

Second Term Test - 2025

Grade 8

Science

Name :

Time - 2 hours

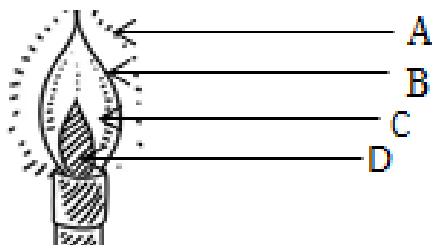
Part I

* Answer all the questions.

* Underline the most suitable answers.

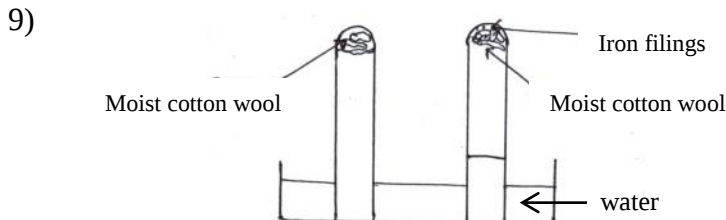
- 1) A plant that stores foods in adventitious roots is,
(i) Sweet potato (iii) Habarala
(ii) Raddish (iv) Potato
- 2) The type of micro organisms with thin filaments and black structures that can be observed on bread is,
(i) Fungi called yeast (iii) Algae called chlamydomonas
(ii) Fungi called mucor (iv) Bacteria called amoeba
- 3) Select the pair of animals that do not belong to some group.
(i) Earthworm, Leech (iii) Centipede, Salamander
(ii) Snail, Cuttle fish (iv) Prawn, Scorpion
- 4) An alloy used to make more powerful magnets is,
(i) Iron (ii) Nichrome (iii) Nickel (iv) Ferrite
- 5) Which of the following is used in galvanizing
(i) Iron (ii) zinc (iii) Tin (iv) paints

The diagram shows a Bunsen flame. Answer question number 6 and 7 using this diagram.



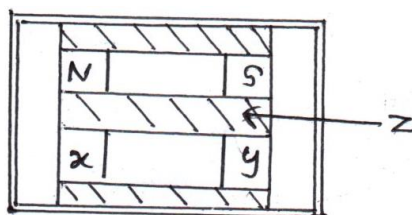
- 6) D zone is,
(i) invisible zone (iii) Dark blue zone
(ii) Light blue zone (iv) Non luminous zone
- 7) In which zone complete burning occurs,
(i) A (ii) B (iii) C (iv) D

- 8) With a neutral substance
- blue litmus turns into red
 - red litmus turns into blue
 - occur both i and ii
 - Phenolphthalein does not change the colour



Above activity proves that,

- Air is needed for rusting of iron
 - Water is needed for rusting of iron
 - Oxygen is needed for rusting of iron
 - Air and water is needed for rusting of iron
- 10) The limitation of hearing of the human is,
- 20 - 2000 Hz
 - 20 - 20000 Hz
 - 18 - 70000 Hz
 - 25 - 25000 Hz
- 11) Not a suitable condition for growing micro organisms is
- Water
 - Optimum temperature
 - suitable P^H range
 - dry substrate
- 12) The diagram shows the way of storing magnets. Select x, y, z are respectively.



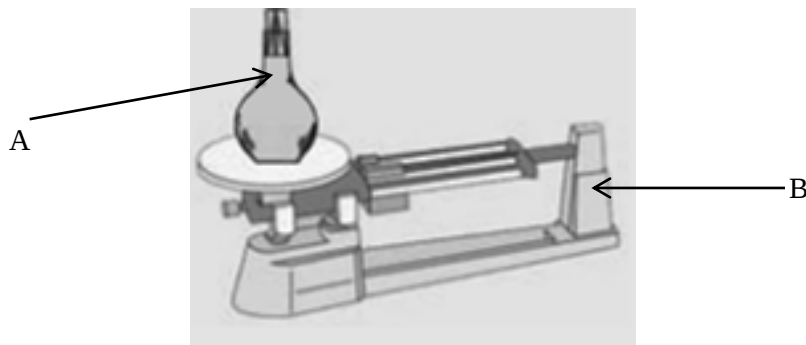
- N terminal, S terminal, soft iron plate
 - S terminal, N terminal, soft iron plate
 - N terminal, S terminal, strap of wood
 - S terminal, N terminal, strap of wood
- 13) The circuit with series bulb connection and parallel dry cell connection is,
-
- Labels: A, B, C, D
- 14) The part that controls the body balance is
- cerebrum
 - cerebellum
 - medulla oblongata
 - spinal cord
- 15) Number of cranial nerves in pairs are
- 12
 - 31
 - 24
 - 43

- 16) Which of the following is not a chemical change
- | | |
|---------------------------------|----------------------------|
| (i) Burning of matchstick | (iii) Evaporation of water |
| (ii) Burning of magnesium strip | (iv) Rusting of iron |
- 17) Not a liquid fuel is
- | | |
|--------------|--------------------------|
| (i) Kerosine | (iii) diesel |
| (ii) petrol | (iv) liquefied petroleum |
- 18) Which organ excret carbon dioxide and water as excretory products.
- | | | | |
|----------|------------|-------------|-------------|
| (i) nose | (ii) lungs | (iii) mouth | (iv) kidney |
|----------|------------|-------------|-------------|
- 19) Law of conservation of mass was discovered by
- | | |
|----------------------|-----------------------------|
| (i) Antony Lavoisier | (iii) Anton van leeuwenhoek |
| (ii) Aristotle | (iv) Democritus |
- 20) Metallic element that exist as a liquid in room temperature is,
- | | | | |
|----------|--------------|---------------|--------------|
| (i) Lead | (ii) mercury | (iii) bromine | (iv) alcohol |
|----------|--------------|---------------|--------------|

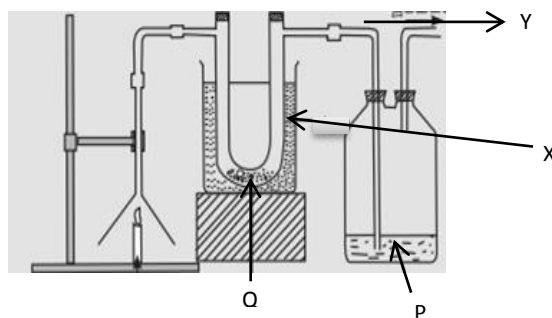
Part – II

- * **1st question is compulsory.**
- * **Answer 1st question and 4 more questions.**

- 1) (A) An activity done by group of students to observe a physical property of matter is given below.



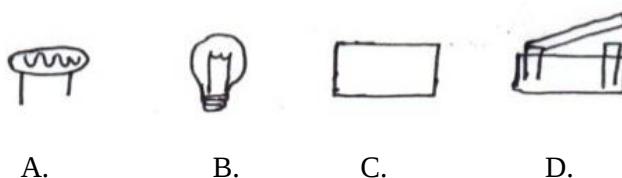
- (i) Name A and B
 - (ii) What is the physical property of matter observed by above activity
 - (iii) Mention other three physical properties of matter except above mentioned property.
 - (iv) “A piece of chalk is crushed into pieces when a force is applied by using a hammer. But, a piece of copper has an ability to be hammered into sheets without breaking into pieces”
Two physical properties of chalk and copper are mentioned in the above statement. Name above mentioned physical properties of chalk and copper respectively.
- (B) The following activity is carried out to identify the products formed during the combustion of fuels.



- (i) Name x and y
- (ii) Complete the chart given below using the above given activity.

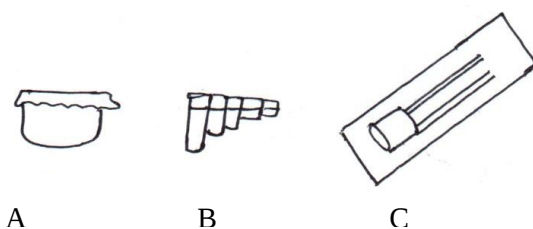
Products formed during the activity	chemicals used to identify the product	colour change
(1)		
(2)		

- 2) Some electric appliances are given below.



- (i) Draw a diagram of a circuit that can be created using above given appliances.
- (ii) Add a diagram of a suitable to the above circuit that can be used to measure the potential difference between the two ends of the bulb.
- (iii) What is the way of connecting above instrument to the circuit, parallel or series?
- (iv) Write down the SI unit of measuring potential difference and its symbol.
- (v) The brightness of the bulb changes depending on a certain factor. Identifying and write the name of A.

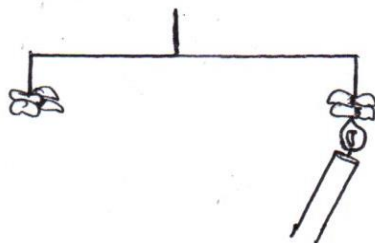
(B)



Above given models of musical instruments were created by a group of students for a science exhibition.

- (i) Mention the way of producing sound of above given instruments respectively.
- (ii) The sound of instrument “A” can be change by increasing the tightness of membrane. Write down the reason for it.
- (iii) Mention a way of producing sharp sound in instrument “C”

- 3) There are two equal masses of iron wool in the figure. It shows an incident of burning only one lump of iron wool.



- (i) Write down 2 observations that can be observed when lighting one lump of iron wool.
- (ii) Write down your conclusion
- (iii) Which type of change occurs in the above activity, chemical change or physical change?
- (iv) Mention 2 evidences to prove your answer
- (v) Which type of system should be created in the above given apparatus to change one observation that you mention in question number i
- (vi) What is the law that can be maintained by creating that system.
- (vii) What are the three main factors needed for occurring above combustion.

4) (A) Select the appropriate words from the brackets and fill in the blanks.

- (i) An odour of alcohol can be observed in a sugar and yeast mixture due to production of
- (ii) Typhoid fever is caused to man by
- (iii) Microbial activity on food high in proteins is known as
- (iv) Animal with a worm like segmented body is
- (v) have a dry skin without glands.

(Reptilia, Bacteria, Ethyl alcohol, Annelida, Putrefaction, Fermentation)

(B) If the statements given below are correct, put a ✓ and if they are wrong, put a ✗ in the brackets.

- (i) Salamander is a vertebrate ()
- (ii) Aves possesses an external ear with ear lobe ()
- (iii) Arthropods body possess an external skeleton ()
- (iv) Chlamydomonas is a type of bacteria ()
- (v) Food spoils rapidly at 35 °C – 40 °C temperature ()
- (vi) Pisces has gill to swim through water and to balance while swimming ()

5) The following report is about plants observed by a group of students during a field trip. Fill in the blanks.

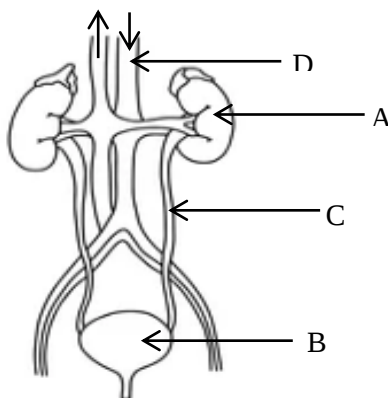
(i)

Plant	Adaptations	Function
Maha kadol	Respiratory roots	
Vetakeyya (Pandanus)		Arise from the stem and support to the stem
Gotukola		

.....	Underground stem that store food	
Beans		Absorb sunlight efficiently

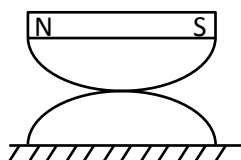
- (ii) All above mentioned plants are green in colour what is the main living process occurring in plants regarding that feature
- (iii) Name two raw materials needed for that process.
- (iv) What are the adaptations shown by plant leaves to obtain sunlight efficiently.

6) (A)



- (i) Name A, B, C, D
- (ii) What is the main excretory product of the above given system.
- (iii) Name a component in that excretory product except water.
- (iv) Name 2 diseases related to above system.
- (v) What is the largest organ in human body that acts as an excretory organ.

(B) The following apparatus is made by using a bar magnet and two watch glasses.



- (i) What is the observation if another magnet is brought closer to the above magnet?
- (ii) Draw a diagram to show the magnetic field around the bar magnet.
- (iii) The magnetic power of permanent magnets is lost due to various reasons. Mention 2 such reasons.