

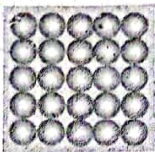
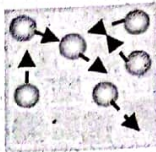
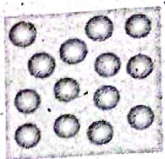
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**දෙවන වාර පරීක්ෂණය 2022**  
**Second Term Test**

**Time : 2 hour**

(4) all of the above



09. How do you call the resistance of the material to wear and tear and scratching?
- elasticity
  - brittleness
  - hardness
  - ductility
10. The particulate nature of matter in their physical states are shown below. Select the answer that shows matter relevant to the particulate nature correctly.
- stones, oxygen, coconut oil.
  - iron, water, nitrogen
  - oxygen, coconut oil, water
  - water, iron, coconut oil
- 


- A                      B                      C
11. Elements chemically combined to make compounds. The elements present in the compound calcium carbonate are,
- carbon, oxygen, calcium
  - calcium, sulphur, carbon
  - carbon, calcium, copper
  - copper, calcium, oxygen
12. The answer which shows musical instruments that produce sound by vibrating membranes and strings respectively are,
- guitar, tabla
  - "davula", violene
  - "davula", tabla
  - violene, flute
13. The incorrect statement out of the following statements is,
- The vibrating frequency of a tabla can be increased by tightening ropes.
  - When the vibrated length of air column is increased, the vibrating frequency is decreased.
  - When the length of the vibrated strings is increased, the vibrating frequency gets increased.
  - When the tension of the vibrated strings is increased, the vibrating frequency get increased.
14. The answer which contains only magnetic substances is,
- Iron, Cromium, Copper
  - Nikel, Cromium, Aluminium
  - Iron, Ferrite, Nikel
  - Ferrite, Copper, Iron
15. A main reason for fading the magenetism of magenets is,
- Subjecting to high temperature
  - Subjecting to vibrations
  - ageing
  - all of the above
16. The standard units of measuring electric current and resistance respectively are,
- Ampere, volt
  - Volt, Ampere
  - Ampere, Ohm
  - Ohm, Ampere

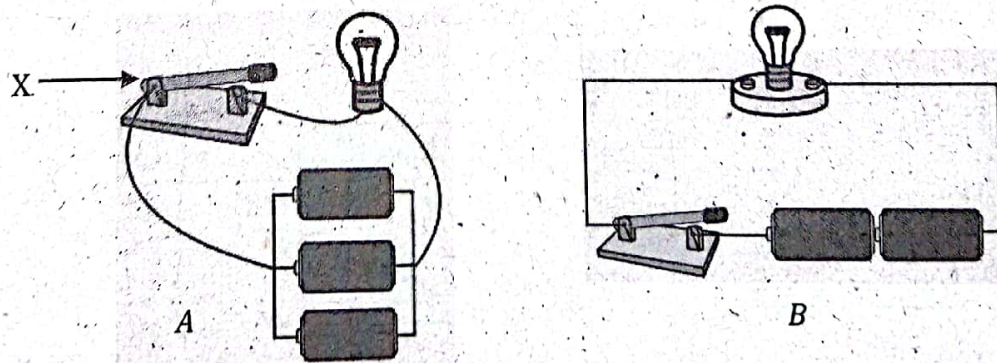


17. This is not a physical change
- (1) Solid wax turns into liquid wax
  - (2) burning of camphor
  - (3) liquidizing ice
  - (4) making granite into small pieces.
18. The scientist who prove the law of conservation of mass for the first time is,
- (1) Benjamin franklin
  - (2) Sir Issac Newton
  - (3) Antonie Lavoisier
  - (4) J.J. Thompson
19. This is not an organ that does excretion,
- (1) lungs
  - (2) mouth
  - (3) skin
  - (4) kidney
20. What is the instrument used to identify the microorganisms and the group of microorganism which was responsible for spreading the "Covid 19" which was subjected to a big outburst in the world in last few years?
- (1) Virus - light microscope
  - (2) Virus - simple microscope
  - (3) Bacteria - electron microscope
  - (4) Virus - electron microscope

## Part - II

- Answer question no. 1 and four more questions.

01. (A) Several activities were assigned to four groups of children in Grade 8. Two circuits A and B prepared by two-groups of them are shown below.



- (i) What circuit will light the bulb with the highest brightness?
- (ii) Mention the ways that cells are connected in the two circuits A and B.
- (iii)
  - (a) What is the accessory named as X?
  - (b) What is the function done by this accessory?
- (iv) Draw the circuit A by symbols.



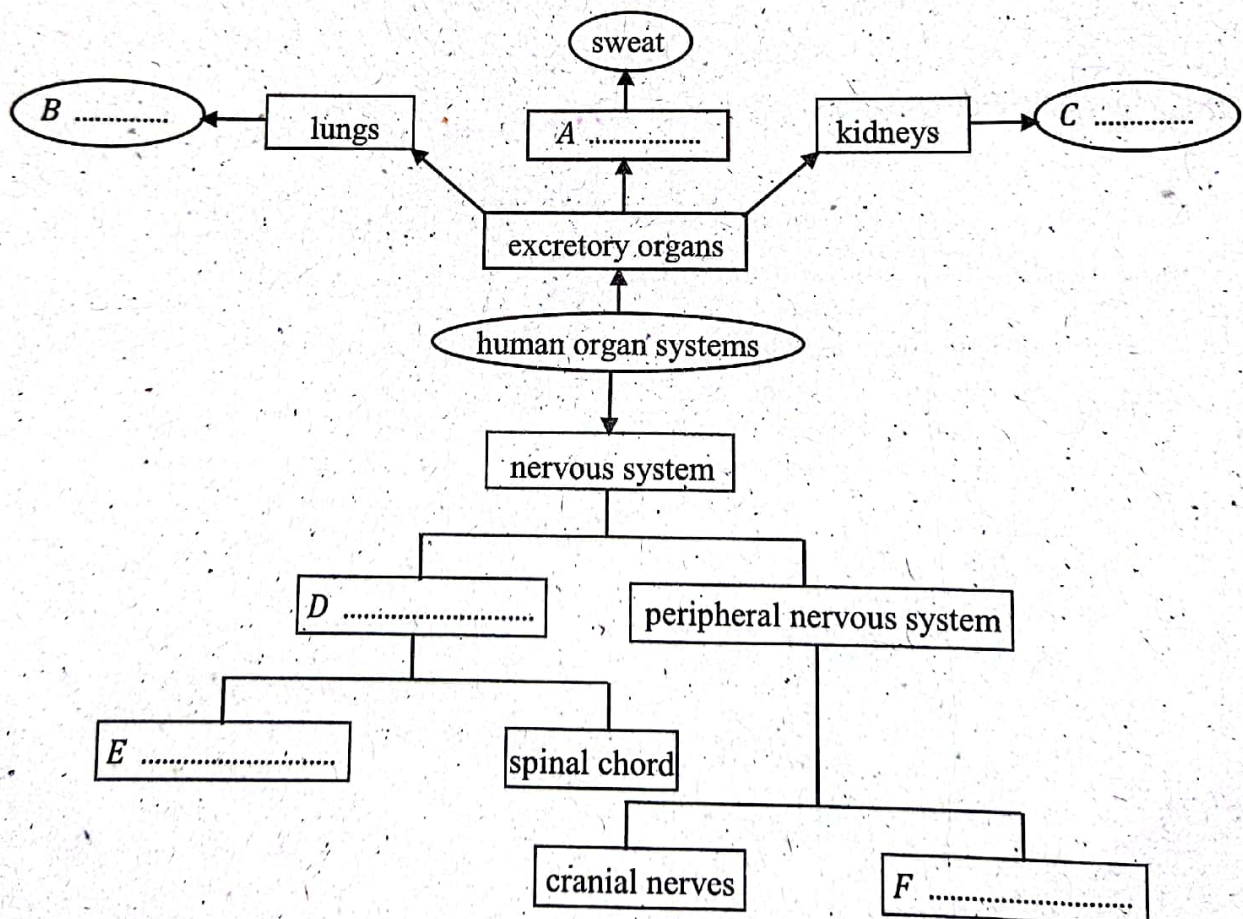
(B) The third group of this class was assigned to measure the current flowing through the circuit B and to connect the instruments needed to measure the potential difference at the two ends of bulb of it.

- (i) Write the instruments used to measure the current and potential difference respectively.
- (ii) (a) Write the two ways that these two instruments are connected to the circuit respectively.  
(b) Draw the circuit diagram using symbols after connecting these two instruments.

(C) The teacher assigned the fourth group of this class to connect another accessory to the circuit to decrease the current flowing through it.

- (i) What is the accessory connected to the circuit to decrease the current?
- (ii) Draw the symbol of this accessory.
- (iii) What is the physical property used in this accessory?

02. (A) After teaching the human organs and systems the chart below was exhibited in the classroom which prepared as a group activity. Ink of some words of this chart was erased.



- (i) Write the suitable words from A to F that ink was erased in this chart.
- (ii) (a) Write two diseases affected to the kidneys.  
(b) Write two points that should be careful to decrease these diseases.



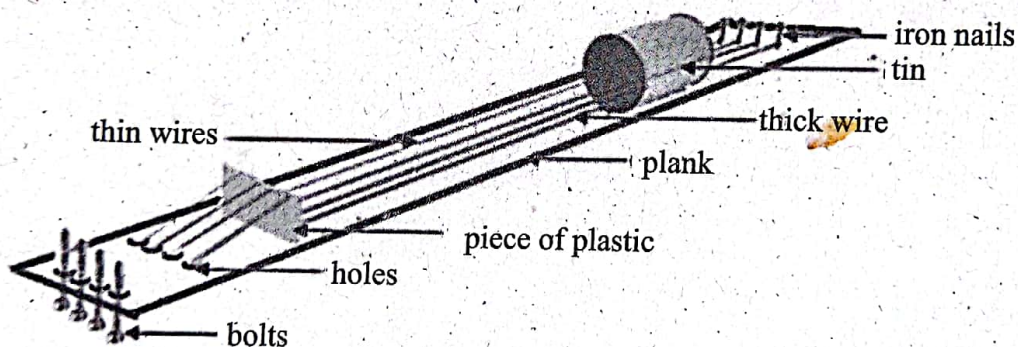
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(5)  
(B) The human skin also acts as an excretory organ.

- (i) Name the two parts that the skin divides.
- (ii) Write two other functions done by the skin other than excretion.
- (iii) Write two steps that should be taken to have a healthy skin.

03. (A) A bee produces murmur sound when it flutters speedily either sides.

- (i) What should happen to an object to produce sound?
- (ii) Name the parts vibrated when the following instruments produce their sound.  
(a) guitar      (b) tabla      (c) flute      (d) udakki
- (iii) (a) What is frequency of sound?  
(b) Write the standard unit that measure the frequency.  
(c) What is the audible range of man?

(B) A model musical instrument for sources of sound was prepared and the diagram of it is shown below.

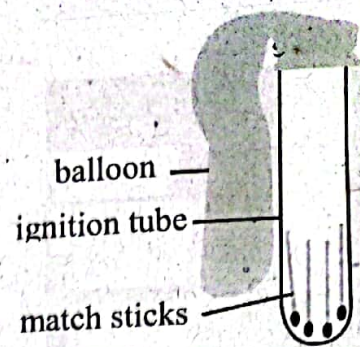


- (i) A pleasant sound can be obtained when the frequency of sound is increased.  
(a) Write two strategies used in this musical instrument to increase the frequency.  
(b) Name two musical instruments that produce sound in this way.
- (ii) Music can be used to heal the mental stress.  
(a) What is musical therapy?  
(b) Name two diseases that can be cured by musical therapy.



04. (A) Shown below is a set – up prepared to study a certain law.

- Taking the mass of this set-up first.
- Heating the tube until the matches light up
- Taking the mass again after cooling the set-up.



- (i)
  - (a) Write the observations related to this activity.
  - (b) What can you say about the reading before the reaction and the reading after the reaction.
- (ii)
  - (a) What is the conclusion arrived using these two readings?
  - (b) What is the law that can be proved by this conclusion?
- (iii) Why this set – up is known as a closed system.

(B) The chemical change taken place by emitting heat energy and light energy is known as combustion.

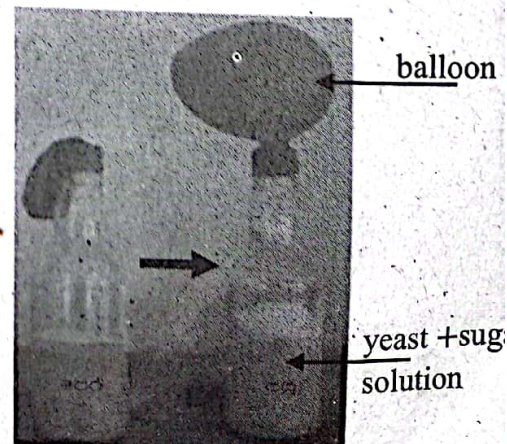
- (i) Name the three main factors needed to take place combustion.
- (ii)
  - (a) What are the two main products produced by combustion?
  - (b) Write respectively the chemicals used to identify these products.

05. (A) It was observed some colourful kind of mildew on remaining rice on the plank used to give food for animals which is made by sumedha in his home garden.

- (i) To what group of microorganisms does mildew belong?
- (ii) What is meant by "microorganisms"?
- (iii) Name the two main factors needed for the growth of microorganisms.

(B) The action of microorganisms act on food in a favorable way as well as unfavorable way.

- (i) Write a favorable effect and unfavorable effect each due to the action of microorganisms on food.
- (ii) The diagram below shows an activity done to demonstrate an effect on food due to microorganisms.
  - (a) Write two observations obtained in this activity.
  - (b) Name the two products produced here.
- (iii) How is it important the action of yeast in making bakery products?

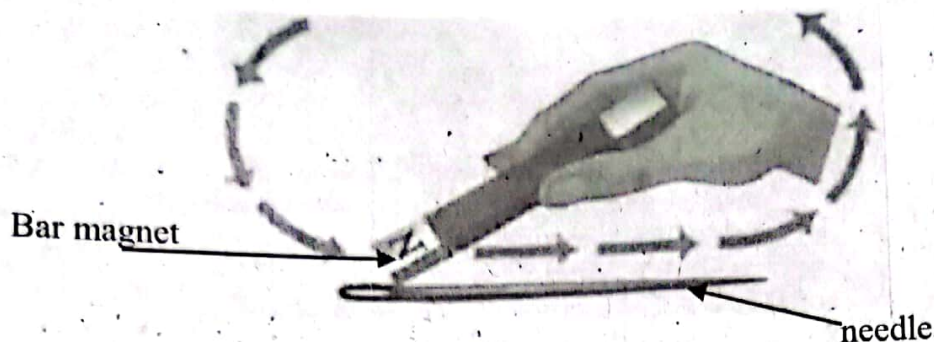




06. (A) Magnets used in various instances are classified as permanent magnets and temporary magnets.

(i) Name the two methods used to make permanent magnets.

(ii) One of the above methods is shown below.

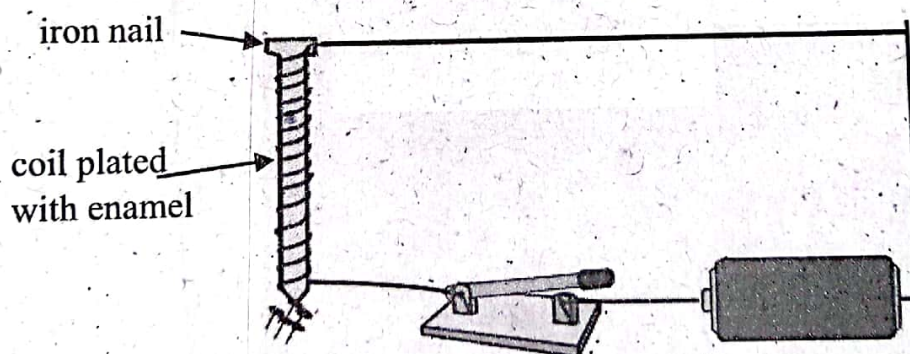


(a) What is this method?

(b) Write a step that can be taken to succeed this method.

(iii) Write two instances that permanent magnet are used.

(B) A circuit diagram of a set-up used to demonstrate the magnetic effect of electricity is shown below.



(i) A student says that when the switch of this circuit is closed the nail becomes a magnet. How do you prove it?

(ii) Write two steps that can be taken to increase the strength of electro magnets.

(iii) Mention two instances that electro magnets are used.





**LOL.Lk**  
Learn Ordinary Level

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