A

SAMAGRA SHIKSHA KERALA

E 706

Second Term Evaluation 2024–2025

Basic Science

Class: 7 **Time: 2 hrs**

Instructions

- 15 minutes is given as cool - off time. This time is to be used for reading the question paper.
- Attempt any 6 from the 8 activities given below.

Activity 1

A) A child was preparing a table of different types of teeth of an adult and their uses. Some parts of the table are missing. Complete the table.

Different types of teeth	Use
1)	Helps to bite and cut food stuffs
Canine	1) .....
Premolar	2) .....
4)	Helps to chew and grind food stuffs

B) Which teeth of the following is more developed in carnivores?
(incisors, canine teeth, milk teeth, molar teeth)

C) If you don't wash your mouth after eating sweets chance of tooth decay is high. Why?

Activity 2

A) The features of substances obtained when the factors are separated from human blood are given below. Analyze the features and write down the corresponding factors.

1) The fluid part of the blood : .....
2) Helps to clot blood : .....
3) No specific shape, but the nucleus is present : .....
4) Contains haemoglobin : .....

B) Which are the small vessels that connect the blood vessels that take blood away from the heart and that bring blood to the heart?

1) veins 2) Arteries 3) Pericardium 4) Capillaries

C) Following are the features of the human heart. Write two more features.

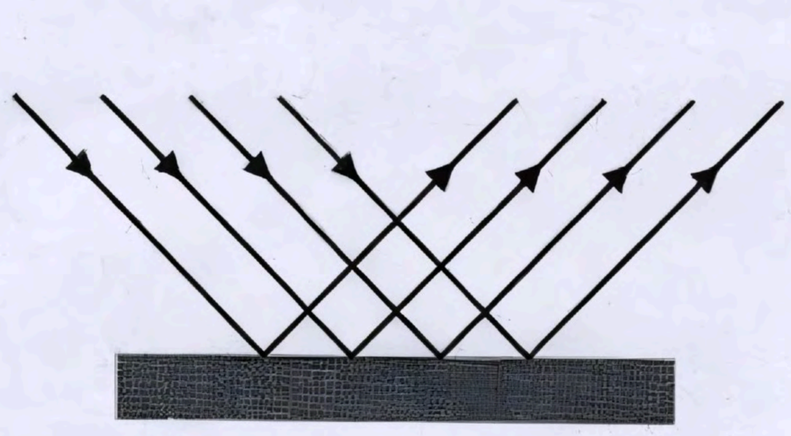
- As big as fist
- Protected by ribs

1) .....

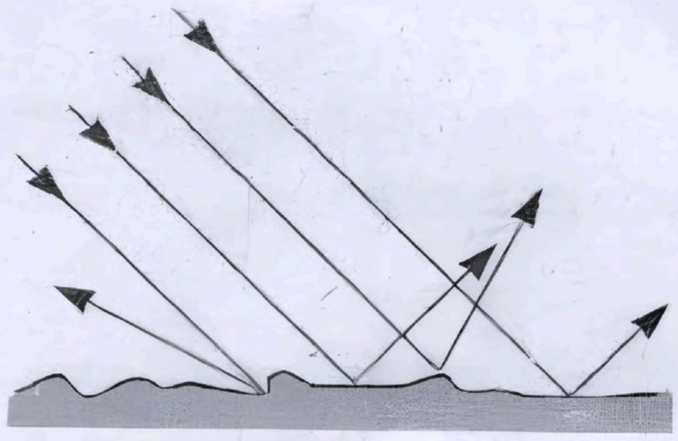
2) .....

Activity 3

A) Look at the pictures. Which types of reflection of light are indicated in these pictures?



Picture 1



Picture 2

1) .....

2) .....

B) Which reflection of light enables us to see things in a room without direct sunlight?

C) Which type of mirror is used to make a periscope? Which principle of reflection of light is utilized here?

Activity 4

A child is doing an experiment in which light from a torch is captured on a wall through different types of objects. observations are given in the table below.

Objects	**Observation**
Butter paper	Transmits light partially
A smooth tile	Does not transmit light
Window glass	Transmits light very well
Scratched glass	Transmits light partially
Wooden block	Does not transmit light
Water taken in a glass	Transmits light very well

A) Tabulate the objects as those that transmit light very well, that transmit light partially and that do not transmit light. Give suitable titles for the table.

B) Examine the following statements and write down those related to the characteristics of the image in a plane mirror.

1) Image undergoes lateral inversion.
2) Transmits light very well.
3) Size of the image is larger than the object.
4) Size of the image and the object is the same.

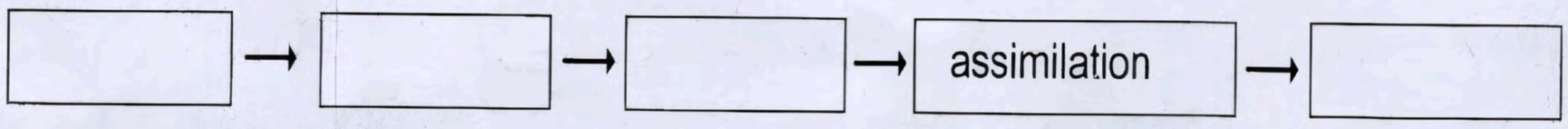
C) If the angle of incidence in a plane mirror is 40°, what is the angle of reflection? (60^0 , 50^0 , 40^0, 80^0)

Activity 5

A The table containing the body parts related to digestive system and their functions is given below. Complete the table properly.

Body parts	Function
1)	Produces hydrochloric acid in small quantity
2)	Absorbs nutrients from the digested food to blood
Large intestine	3) .....
4)	4) Completes digestion

B. Select suitable items from those given below and complete the flow chart indicating the stages of nutrition of amoeba.
(assimilation, ejections, absorption, ingestion, digestion respiration)



C. Name the wave like movement of oesophagus wall

. a. assimilation b. absorption c. peristalsis d. pulse

Activity 6

Materials used for the experiment to show whether all objects conduct heat are given below.

Aluminum wire, copper wire, wooden piece, iron rod, plastic rod

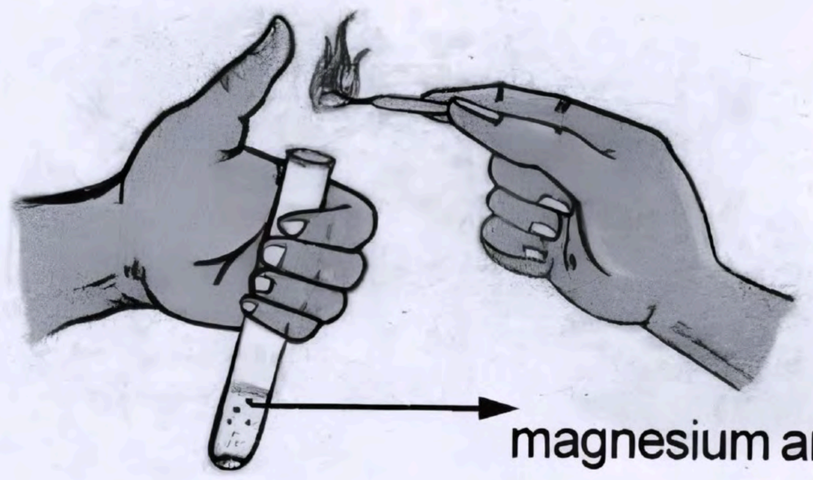
A) Which objects are used to make the handle of vessels used for cooking? Why?

B) When we reach sea shore during day time, we experience cold breeze. Where does this breeze come from? Explain how it is formed.

C) Name a device working on the basis of thermal expansion of liquids

Activity 7

Observe the illustration of an experiment using magnesium and vinegar given below.



A) What will happen when a lighted match stick is placed near to the mouth of the test-tube which had been closed by thumb is opened. Why?

B) Why is the test tube closed with finger ?

C) Name other two substances which can be used instead of vinegar.

Activity 8

You might have observed that the cooked food items become cool after sometime.

A) What are the heat transmission methods through which heat of food is lost?

B) Explain any one of these heat transmission methods.

C) Explain how heat is not lost when we adopt a way to prevent heat loss.