**SINDHI HIGH SCHOOL, HEBBAL**

**II PERIODIC TEST [2023-24]**

**Subject: SCIENCE Answer Key**

**Class: VI Max. Marks: 50**

1. b) Light travels in a straight line. (1)

2. c) Reflection (1)

3. c) A mirror (1)

4. c) Distilled water (1)

5. d) Winnowing, weight of the components (1)

6. d) speed the settling of suspended particles (1)

7. a) Carbohydrates (1)

8. b) Bones and teeth (1)

9. d) loss of nutrients in food (1)

10. a) Both A and R are true, and R is the correct explanation of A. (1)

11. b) Both A and R are true, and R is not the correct explanation of A. (1)

12.c) A is true but R is false. (1)

13. a) Kaleidoscope works based on the principle of reflection of light.

b) Transparent objects allow most of the light to pass through them. Translucent objects allow light to pass through them partially. (1x2=2)

14. a) It can be used to observe many distant objects and moving objects in bright sunlight. It can also be used to observe solar eclipse. (any one)

b) Image formed by the pinhole camera is real, inverted and small(with colour).

(1x2=2)

15: Vitamins and minerals are needed in very small quantities but are essential for the normal functioning of our body. It is because

(i) They are protective foods and help protect our bodies against diseases.

(ii) They help in maintaining good health.

(iii) They help in the normal growth of our body. (any two) (1x2=2)

 16: Paheli’s teachers’ saree might have been starched. We know that starch turns blue-black with iodine solution. So the saree turned blue-black. But Paheli’s socks did not have starch and thus did not show any change of colour.

(1 x 2=2)

17. a) An object that gives out its own light is called luminous object.

Eg., Sun, stars, a burning candle, a lighted electric bulb and a firefly.

An object that does not emit light of its own is called a non-luminous.

Eg., animals, chairs, moon, plants, etc., (½ x 4=2)

b) Light keeps the earth warm. Plants cannot make food without sunlight. All living beings depend upon plants for food and oxygen. Therefore, without sunlight- no plants, if no plants- no food and oxygen, then no life can exists. (Any one suitable explanation) (1)

18 Separation of mixtures into their components is often necessary for several reasons: They are:-

1) To remove harmful substances:- For example, the food grains like rice, wheat, etc., may contain small pieces of stones or insects which are harmful to us. So, we separate them from the grains before using them.

2) To separate (two) different but useful components: For example Churning milk to get butter- we use both the components butter and buttermilk.

3) To remove or separate undesirable substances: For example, to separate tea leaves from tea decoction. This is done because the used tea leaves have become an undesirable component after tea preparation and hence we separate the mixture. (1x 3=3)

19: Water is a vital component of our food because

1. It helps the body to dissolve, digest and absorb from the food we eat.
2. It regulates the body temperature, cools the body by sweating.
3. It transports substances and nutrients inside our body.
4. It helps in removing our body wastes through sweat and urine.

(Any three) (1x 3=3)

20. Carbohydrates Rich Food Item - Sweet potato, white bread

Protein Rich Food Item - Moong dal, fish

Fat Rich Food Item - Mustard oil, butter (½ x 6=3)

21. a) A source of light, an opaque object to block the path of light and an opaque screen behind the object. (½ x 3=1½)

b) Shadows are the longest during morning and evening and shortest at noon.

(½ x 3=1½)

c) No, as their shadows will be formed only when they fly very close to the ground. (½ +½)

d) Multiple shadows of a player can be seen when he plays a match in the stadium as light falls on him from more than one source. (½ +½)

22. She can add alum to it, stir it and leave the water undisturbed for some time as this speeds up the process of sedimentation (loading), then decant the water (Decantation). (½ x 6=3)

She can then boil the water, cool it, filter the water with a muslin cloth again and drink the water as it is now fit for drinking. (½ x 4=2)

23. a) Filtration (1)

b) 1 - Glass rod 2- Residue 3- Stand 4- Filtrate (½ x 4=2)

c)\* To separate tea leaves from tea. We pour the prepared tea through a tea strainer.

\*Fruits and vegetable juice are filtered before drinking to separate the seeds and the pulp.

\*For making paneer, a few drops of lemon juice/alum is added to the boiling milk. It forms a mixture that consists of particles of solid paneer and a liquid (whey). The paneer is then separated from the liquid through a fine filtering cloth (muslin cloth) or a strainer. (any two) (1 x 2=2)

24. a) A diet that contains proper amount of all the nutrients, roughage and water required for the proper growth and development of the body is called a balanced diet. (1)

b) Yes, as nutrients will be lost if we wash the vegetables after cutting. (1)

c) We see that the paper has oil on it which indicates the presence of fats in the

groundnut. (½ x 2=1)

d) It turns violet and indicates the presence of proteins in it. (½ x 2=1)