

**KENDRIYA VIDYALAYA SANGTHAN, LUCKNOW REGION**  
**SESSION ENDING EXAMINATION-(2023-24)**  
**MARKING SCHEME**  
**CLASS- VII**  
**SUBJECT- SCIENCE**

**SECTION-A**

1. (d) Chlorophyll
2. (d) Seed
3. (a) RBC
4. (a) Pollination
5. (b) 10 m/s
6. (c) Convex mirror
7. (a) Sewers
8. (d) All of these

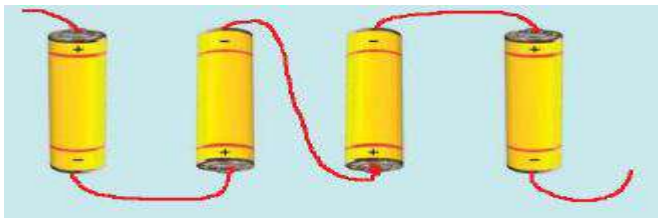
**SECTION-B**

9. Cactus, the part where photosynthesis occurs are stem and branches which are green. 1+1  
OR

a) Pitcher plant , b) Insectivorous plant

TIME PERIOD= TIME TAKEN/ NO, OF OSCILLATION

$$= 32/20=1.6 \text{ s}$$



11.

12. Oils and fats should not be released in drains because they harden the soil in the pipes and block them. Fats get clogged in holes of the soil in the drain and block it. It does not allow the water to flow. ( 2)

13. Sludge and biogas 1+1

**SECTION-C**

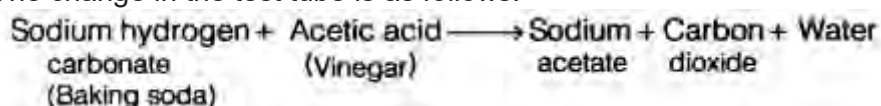
**14. Any three differences ( 3 marks)**

**15. (a)** The reaction between lime water and carbon dioxide gas is a chemical change because a new substance calcium carbonate is formed during this change. The turning of lime water into milky is a standard test of carbon dioxide. (1.5)

(b) When baking soda (sodium hydrogen carbonate) and vinegar (acetic acid) are mixed together, then a chemical change takes place between sodium hydrogen carbonate and acetic acid to form three new substances.

The change in the test tube is as follows:

(1.5)



Or

- (a) Presence of moisture in coastal areas
- (b) oiling, painting (any two)

16. (a) Burning of a candle Chemical change as well as physical change and energy evolved.  
(b) Lightning of a bulb Physical change, energy evolved.  
(c) Preparation of food by green plants Chemical change, energy absorbed.  
(d) Volcanic eruption Chemical change, energy evolved.  
(e) Evaporation of petrol Physical change as no new chemical substance is formed, energy absorbed.  
(f) Burning of LPG Chemical change because LPG on burning form  $\text{CO}_2$  and  $\text{H}_2\text{O}$ , energy absorbed.
17. any three

#### **SECTION-D**

18. (a) and (b) Correct figure and naming (5)  
19. (a) No, because plastic does not have the magnetic property to get attracted to a magnet; hence magnet cannot be used to separate plastic bags. (2)

(b) It is not a wise idea to replace the fuse with a piece of wire, as it has a very low melting point. In the case of the metal piece, the melting point will be high, and the circuit will be intact in case there is overload or overheating. (3)

- 20.(a) any two characteristics. (2)  
(b) concave (1)  
(c) (i) lens (ii) Concave (1+1)

#### **SECTION-E**

21. (a) Dialysis is the process used for cleaning of the blood by separating the waste products in an artificial medium.(1)  
(b) Dialysis is needed when the excretory organ of humans, i.e. kidney becomes damaged on unfunctional due to some injury or infection.(1)  
(c) Excretion process removes the waste products released in body after the utilisation of food and other components. These products are toxic and may harm us if not removed from our body.(1)  
(d) Kidney(1)  
(e) Bladder .(1)

22. (1)(d) Photosynthesis (2) (d) Cloud (3) (a) Roots, vapours

**(4) Answer:** Paheli reminded Professor Ahmad that he had not yet explained why forest is called the green lungs.

**(5) Answer:** The forest provides food, shelter and medicines to humans.

23. (1) c (2) d (3) d (4) c (5) c