



INDIAN SCHOOL AL WADI AL KABIR



CLASS: VII	DEPARTMENT: SCIENCE	DATE: 05-12-2024
MARKS: 30	POST - MID TERM ANSWER KEY	DURATION: 1 HOUR

SECTION - A		
1] c) 50°		1
2] a) Concave mirror		1
3] d) Stainless steel		1
4] b) Yes; it is a reversible physical change in state of wax		1
5] ii) Both A and R are true but R is not the correct explanation of the assertion		1
6] iii) A is true but R is false		1
7] iv) A is false but R is true		1
SECTION - B		
8] a) All the seven colours combine to make white.		1
b) i) Convex mirrors are used as rear-view mirrors or side-view mirrors in automobiles such as cars, scooters, trucks and buses to see the traffic coming from behind.		(Any 2) $\frac{1}{2} + \frac{1}{2}$
ii) Convex mirrors are used as vigilance-mirrors in big shops and shopping complexes to keep an eye on customers and shoplifters, if any.		
iii) Convex mirrors are used as staircase-mirrors on the double-decker buses.		
9] a)		(Any 1 difference) $\frac{1}{2} + \frac{1}{2}$

CONVEX LENS	CONCAVE LENS
1.Thick at the middle, thin at the edge.	1. Thin at the middle, thick at the edge.
2.It can form a magnified image.	2. Image is always diminished in size.
3.It is also known as convergent lens.	3. It is also known as divergent lens.

<p>13] a) The Ozone layer protects us from ultraviolet radiation which comes from the sun. Ozone absorbs ultraviolet radiation and breaks down to form oxygen. If not absorbed by ozone, it would reach the earth's surface and cause harm to us and other life forms. In this way, the ozone layer absorbs harmful ultraviolet radiation.</p> <p>b) i) Blue colour changes to green due to the formation of iron sulphate.</p> <p>ii) Copper sulphate + Iron \longrightarrow Iron sulphate + Copper</p>	<p>1</p> <p>$\frac{1}{2} + \frac{1}{2}$</p> <p>1</p>
SECTION - D	
<p>14] a) The process of separating a pure substance in the form of crystals from a hot saturated solution by cooling is called crystallisation.</p> <p>b) When an iron object is left in damp air (or water) for a considerable time, it gets covered with a red-brown flaky substance called rust. This is called rusting of iron.</p> <p>Rusting of iron requires contact with water (moisture) and oxygen. By painting an iron gate, we prevent the contact between iron, Oxygen and water (moisture), this helps in preventing rusting of iron.</p> <p>c) i) Evolution of gas / carbon dioxide is formed.</p> <p>ii) Due to the formation of calcium carbonate.</p> <p>Calcium hydroxide + Carbon dioxide \longrightarrow Calcium carbonate + Water</p>	<p>1</p> <p>1 + 1</p> <p>$\frac{1}{2}$</p> <p>$\frac{1}{2}$</p> <p>1</p>
SECTION - E	
<p>15] i) A mirror forms an image such that its left side is object's right side and its right side is object's left side.</p> <p>ii) The bouncing back of light with the change in direction is called reflection of light.</p> <p>iii) The driver in the other vehicles ahead of the ambulance can see the word 'AMBULANCE' clearly in the rear-view mirror and give way to the ambulance immediately.</p>	<p>1</p> <p>1</p> <p>1</p>