DELHI PUBLIC SCHOOL, JAMMU Session (2024-25)

Class: Subject:Science

Answer Key of Set-2			
	SECTION A		Marks
1	(b) virtual and erect		1
2	(d) all reflecting surfaces.		1
3	(c) CaO		1
4	(c) Yellow precipitates of lead iodide and potassium nitrate will be produced		1
5	a) The process of taking in oxygen and giving out carbon dioxide.		1
6	6 b) The process of using sunlight to make food.		1
7	a) The process of taking in food and using it for growth, repair and energy.		1
8	(a) Both Assertion and Reason are correct and Reason is the correct explanation for Assertion.		1
9	A . Both Assertion and reason is true . Reason is the correct explanation of assertion.		1
10	A . Both Assertion and reason is true . Reason is the correct explanation of assertion. SECTION B		1
11			
11	Aluminium>Copper> Marble		1 1
12	. During respiration in cells, glucose combines with oxygen and gets converted into carbon dioxide and water. This reaction releases lot of energy in the form of ATP. $C_6H_{12}O_6 (aq) + 6 O_2 (g) \rightarrow 6 CO_2 (g) + 6 H_2O (l) + Energy$ OR Ans4. 2 FeSO ₄ (s) \rightarrow Fe ₂ O ₃ (s) + SO ₂ (g) + SO ₃ (g)		2
13	1 mark for each points.		2
	Aerobic Respiration	Anaerobic Respiration	
	Oxygen is required for this type of respiration to take place.	No requirement of oxygen in this process.	
		Exchange of gases is there but oxygen gas does not take part.	
	Process of respiration takes place in the cytoplasm and the mitochondria.	Takes place in the cytoplasm only.	
	L L	Glucose breaks down into ethyl alcohol, carbon dioxide, and energy.	
	SECTION C		
14	i. The major reason behind this is that it provides a wider field of view. This permits the driver to view most of the traffic that is behind his vehicle. A convex mirror always creates a virtual image.ii. The type of image formed on the cinema screen is a real image.		2
15	During decomposition reaction, a single substance decomposes to form two or more simpler products whereas in combination reaction, two or more reactants combine and form a single product. Decomposition reaction: $CaCO_3(s) \rightarrow CaO(s) + CO_2(g)$		3
L	Combination reaction: CaO (s) + H ₂ O (l) \rightarrow Ca (OH) ₂ (aq)		

